

Applicant : Rene Gantier et al.
Serial No. : 10/658,834
Filed : September 8, 2003
Third Preliminary Amendment
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Attorney's Docket No.: 17109-012001/ 922



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Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala
65 70 75 80
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Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Ser Cys Leu Arg Phe
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<212> PRT

<213> Homo sapiens

<400> 290

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| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Tyr | Phe | Asn | Ala | Gly | His | Ser | Asp | Val | Ala | Asp | Asn | Gly | Thr | Leu | Phe |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Val | Gly | Ile | Leu | Lys | Asn | Trp | Lys | Glu | Glu | Ser | Asp | Arg | Lys | Ile | Met |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Gln | Ser | Gln | Ile | Val | Ser | Phe | Tyr | Phe | Lys | Leu | Phe | Lys | Asn | Phe | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Asp | Asp | Gln | Ser | Ile | Gln | Lys | Ser | Val | Glu | Thr | Ile | Lys | Glu | Asp | Met |
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| Asn | Val | Lys | Phe | Phe | Asn | Ser | Asn | Lys | Lys | Lys | Arg | Asp | Asp | Phe | Glu |
| | | | 85 | | | | | | 90 | | | | | 95 | |
| Lys | Leu | Thr | Asn | Tyr | Ser | Val | Thr | Asp | Leu | Asn | Val | Gln | Arg | Lys | Ala |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Ile | His | Glu | Leu | Ile | Gln | Val | Met | Ala | Glu | Leu | Ser | Pro | Ala | Ala | Lys |
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| Thr | Gly | Lys | Arg | Lys | Arg | Ser | Gln | Met | Leu | Phe | Gln | Gly | Arg | Arg | Ala |
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<400> 291

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| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Tyr | Phe | Asn | Ala | Gly | His | Ser | Asp | Val | Ala | Asp | Asn | Gly | Thr | Leu | Phe |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Ile | Gly | Ile | Leu | Lys | Asn | Trp | Lys | Glu | Glu | Ser | Asp | Arg | Lys | Ile | Met |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Gln | Ser | Gln | Ile | Val | Ser | Phe | Tyr | Phe | Lys | Leu | Phe | Lys | Asn | Phe | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Asp | Asp | Gln | Ser | Ile | Gln | Lys | Ser | Val | Glu | Thr | Ile | Lys | Glu | Asp | Met |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Asn | Val | Lys | Phe | Phe | Asn | Ser | Asn | Lys | Lys | Lys | Arg | Asp | Asp | Phe | Glu |
| | | | 85 | | | | | | 90 | | | | | 95 | |
| Lys | Leu | Thr | Asn | Tyr | Ser | Val | Thr | Asp | Leu | Asn | Val | Gln | Arg | Lys | Ala |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Ile | His | Glu | Leu | Ile | Gln | Val | Met | Ala | Glu | Leu | Ser | Pro | Ala | Ala | Lys |
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| Thr | Gly | Lys | Arg | Lys | Arg | Ser | Gln | Met | Leu | Phe | Gln | Gly | Arg | Arg | Ala |
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Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80
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Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
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<213> Homo sapiens

<400> 292

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| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Tyr | Phe | Asn | Ala | Gly | His | Ser | Asp | Val | Ala | Asp | Asn | Gly | Thr | Leu | Phe |
| | | 20 | | | | | 25 | | | | | 30 | | | |
| Leu | Gly | Ile | Leu | Gln | Asn | Trp | Lys | Glu | Glu | Ser | Asp | Arg | Lys | Ile | Met |
| | 35 | | | | | 40 | | | | | 45 | | | | |
| Gln | Ser | Gln | Ile | Val | Ser | Phe | Tyr | Phe | Lys | Leu | Phe | Lys | Asn | Phe | Lys |
| 50 | | | | | 55 | | | | 60 | | | | | | |
| Asp | Asp | Gln | Ser | Ile | Gln | Lys | Ser | Val | Glu | Thr | Ile | Lys | Glu | Asp | Met |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |
| Asn | Val | Lys | Phe | Phe | Asn | Ser | Asn | Lys | Lys | Lys | Arg | Asp | Asp | Phe | Glu |
| | | | 85 | | | | | 90 | | | | | | 95 | |
| Lys | Leu | Thr | Asn | Tyr | Ser | Val | Thr | Asp | Leu | Asn | Val | Gln | Arg | Lys | Ala |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Ile | His | Glu | Leu | Ile | Gln | Val | Met | Ala | Glu | Leu | Ser | Pro | Ala | Ala | Lys |
| | | 115 | | | | 120 | | | | | | 125 | | | |
| Thr | Gly | Lys | Arg | Lys | Arg | Ser | Gln | Met | Leu | Phe | Gln | Gly | Arg | Arg | Ala |
| | 130 | | | | | 135 | | | | | 140 | | | | |
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<210> 293

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<400> 293

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| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Tyr | Phe | Asn | Ala | Gly | His | Ser | Asp | Val | Ala | Asp | Asn | Gly | Thr | Leu | Phe |
| | | 20 | | | | | 25 | | | | | 30 | | | |
| Leu | Gly | Ile | Leu | Asn | Asn | Trp | Lys | Glu | Glu | Ser | Asp | Arg | Lys | Ile | Met |
| | 35 | | | | | 40 | | | | | 45 | | | | |
| Gln | Ser | Gln | Ile | Val | Ser | Phe | Tyr | Phe | Lys | Leu | Phe | Lys | Asn | Phe | Lys |
| 50 | | | | | 55 | | | | 60 | | | | | | |
| Asp | Asp | Gln | Ser | Ile | Gln | Lys | Ser | Val | Glu | Thr | Ile | Lys | Glu | Asp | Met |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |
| Asn | Val | Lys | Phe | Phe | Asn | Ser | Asn | Lys | Lys | Lys | Arg | Asp | Asp | Phe | Glu |
| | | | 85 | | | | | 90 | | | | | | 95 | |
| Lys | Leu | Thr | Asn | Tyr | Ser | Val | Thr | Asp | Leu | Asn | Val | Gln | Arg | Lys | Ala |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Ile | His | Glu | Leu | Ile | Gln | Val | Met | Ala | Glu | Leu | Ser | Pro | Ala | Ala | Lys |
| | | 115 | | | | 120 | | | | | | 125 | | | |
| Thr | Gly | Lys | Arg | Lys | Arg | Ser | Gln | Met | Leu | Phe | Gln | Gly | Arg | Arg | Ala |
| | 130 | | | | | 135 | | | | | 140 | | | | |
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<213> Homo sapiens

<400> 294

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| Cys | Tyr | Cys | Gln | Asp | Pro | Tyr | Val | Lys | Glu | Ala | Glu | Asn | Leu | Lys | Lys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Tyr | Phe | Asn | Ala | Gly | His | Ser | Asp | Val | Ala | Asp | Asn | Gly | Thr | Leu | Phe |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Leu | Gly | Ile | Leu | Lys | Asn | Trp | Gln | Glu | Glu | Ser | Asp | Arg | Lys | Ile | Met |
| | 35 | | | | | | 40 | | | | | 45 | | | |
| Gln | Ser | Gln | Ile | Val | Ser | Phe | Tyr | Phe | Lys | Leu | Phe | Lys | Asn | Phe | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Asp | Asp | Gln | Ser | Ile | Gln | Lys | Ser | Val | Glu | Thr | Ile | Lys | Glu | Asp | Met |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |
| Asn | Val | Lys | Phe | Phe | Asn | Ser | Asn | Lys | Lys | Lys | Arg | Asp | Asp | Phe | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Lys | Leu | Thr | Asn | Tyr | Ser | Val | Thr | Asp | Leu | Asn | Val | Gln | Arg | Lys | Ala |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Ile | His | Glu | Leu | Ile | Gln | Val | Met | Ala | Glu | Leu | Ser | Pro | Ala | Ala | Lys |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Thr | Gly | Lys | Arg | Lys | Arg | Ser | Gln | Met | Leu | Phe | Gln | Gly | Arg | Arg | Ala |
| | 130 | | | | | 135 | | | | | 140 | | | | |
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<213> Homo sapiens

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| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Tyr | Phe | Asn | Ala | Gly | His | Ser | Asp | Val | Ala | Asp | Asn | Gly | Thr | Leu | Phe |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Leu | Gly | Ile | Leu | Lys | Asn | Trp | Asn | Glu | Glu | Ser | Asp | Arg | Lys | Ile | Met |
| | 35 | | | | | | 40 | | | | | 45 | | | |
| Gln | Ser | Gln | Ile | Val | Ser | Phe | Tyr | Phe | Lys | Leu | Phe | Lys | Asn | Phe | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Asp | Asp | Gln | Ser | Ile | Gln | Lys | Ser | Val | Glu | Thr | Ile | Lys | Glu | Asp | Met |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |
| Asn | Val | Lys | Phe | Phe | Asn | Ser | Asn | Lys | Lys | Lys | Arg | Asp | Asp | Phe | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Lys | Leu | Thr | Asn | Tyr | Ser | Val | Thr | Asp | Leu | Asn | Val | Gln | Arg | Lys | Ala |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Ile | His | Glu | Leu | Ile | Gln | Val | Met | Ala | Glu | Leu | Ser | Pro | Ala | Ala | Lys |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Thr | Gly | Lys | Arg | Lys | Arg | Ser | Gln | Met | Leu | Phe | Gln | Gly | Arg | Arg | Ala |
| | 130 | | | | | 135 | | | | | 140 | | | | |
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<400> 296

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| Cys | Tyr | Cys | Gln | Asp | Pro | Tyr | Val | Lys | Glu | Ala | Glu | Asn | Leu | Lys | Lys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Tyr | Phe | Asn | Ala | Gly | His | Ser | Asp | Val | Ala | Asp | Asn | Gly | Thr | Leu | Phe |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Leu | Gly | Ile | Leu | Lys | Asn | Trp | Lys | Gln | Glu | Ser | Asp | Arg | Lys | Ile | Met |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Gln | Ser | Gln | Ile | Val | Ser | Phe | Tyr | Phe | Lys | Leu | Phe | Lys | Asn | Phe | Lys |
| | | 50 | | | | 55 | | | | | 60 | | | | |
| Asp | Asp | Gln | Ser | Ile | Gln | Lys | Ser | Val | Glu | Thr | Ile | Lys | Glu | Asp | Met |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |
| Asn | Val | Lys | Phe | Phe | Asn | Ser | Asn | Lys | Lys | Lys | Arg | Asp | Asp | Phe | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Lys | Leu | Thr | Asn | Tyr | Ser | Val | Thr | Asp | Leu | Asn | Val | Gln | Arg | Lys | Ala |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Ile | His | Glu | Leu | Ile | Gln | Val | Met | Ala | Glu | Leu | Ser | Pro | Ala | Ala | Lys |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Thr | Gly | Lys | Arg | Lys | Arg | Ser | Gln | Met | Leu | Phe | Gln | Gly | Arg | Arg | Ala |
| | 130 | | | | | 135 | | | | | 140 | | | | |
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<400> 297

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| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Tyr | Phe | Asn | Ala | Gly | His | Ser | Asp | Val | Ala | Asp | Asn | Gly | Thr | Leu | Phe |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Leu | Gly | Ile | Leu | Lys | Asn | Trp | Lys | Asn | Glu | Ser | Asp | Arg | Lys | Ile | Met |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Gln | Ser | Gln | Ile | Val | Ser | Phe | Tyr | Phe | Lys | Leu | Phe | Lys | Asn | Phe | Lys |
| | | 50 | | | | 55 | | | | | 60 | | | | |
| Asp | Asp | Gln | Ser | Ile | Gln | Lys | Ser | Val | Glu | Thr | Ile | Lys | Glu | Asp | Met |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |
| Asn | Val | Lys | Phe | Phe | Asn | Ser | Asn | Lys | Lys | Lys | Arg | Asp | Asp | Phe | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Lys | Leu | Thr | Asn | Tyr | Ser | Val | Thr | Asp | Leu | Asn | Val | Gln | Arg | Lys | Ala |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Ile | His | Glu | Leu | Ile | Gln | Val | Met | Ala | Glu | Leu | Ser | Pro | Ala | Ala | Lys |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Thr | Gly | Lys | Arg | Lys | Arg | Ser | Gln | Met | Leu | Phe | Gln | Gly | Arg | Arg | Ala |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ser | Gln | | | | | | | | | | | | | | |
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35 40 45
Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe Lys Asn Phe Lys
50 55 60
Asp Asp Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met
65 70 75 80
Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg Asp Asp Phe Glu
85 90 95
Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala
100 105 110
Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys
115 120 125
Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Gln Gly Arg Arg Ala
130 135 140
Ser Gln
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<213> Homo sapiens

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35 40 45
Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe Lys Asn Phe Lys
50 55 60
Asp Asp Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met
65 70 75 80
Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg Asp Asp Phe Glu
85 90 95
Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala
100 105 110
Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys
115 120 125
Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Gln Gly Arg Arg Ala
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Ser Gln
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20 25 30
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35 40 45
Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe Lys Asn Phe Lys
50 55 60
Asp Asp Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met
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Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg Asp Asp Phe Glu
85 90 95
Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala
100 105 110
Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys
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20 25 30
Leu Gly Ile Leu Lys Asn Trp Lys Glu His Ser Asp Arg Lys Ile Met
35 40 45
Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe Lys Asn Phe Lys
50 55 60
Asp Asp Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met
65 70 75 80
Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg Asp Asp Phe Glu
85 90 95
Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala
100 105 110
Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys
115 120 125
Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Gln Gly Arg Arg Ala
130 135 140
Ser Gln
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<400> 302
Cys Tyr Cys Gln Asp Pro Tyr Val Lys Glu Ala Glu Asn Leu Lys Lys
1 5 10 15

Tyr Phe Asn Ala Gly His Ser Asp Val Ala Asp Asn Gly Thr Leu Phe
20 25 30
Leu Gly Ile Leu Lys Asn Trp Lys Glu Glu Ser Asp Arg Lys Ile Met
35 40 45
Gln Ser Gln Ile Val Ser Phe Tyr Phe Gln Leu Phe Lys Asn Phe Lys
50 55 60
Asp Asp Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met
65 70 75 80
Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg Asp Asp Phe Glu
85 90 95
Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala
100 105 110
Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys
115 120 125
Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Gln Gly Arg Arg Ala
130 135 140
Ser Gln
145

<210> 303
<211> 146
<212> PRT
<213> Homo sapiens

<400> 303
Cys Tyr Cys Gln Asp Pro Tyr Val Lys Glu Ala Glu Asn Leu Lys Lys
1 5 10 15
Tyr Phe Asn Ala Gly His Ser Asp Val Ala Asp Asn Gly Thr Leu Phe
20 25 30
Leu Gly Ile Leu Lys Asn Trp Lys Glu Glu Ser Asp Arg Lys Ile Met
35 40 45
Gln Ser Gln Ile Val Ser Phe Tyr Phe Asn Leu Phe Lys Asn Phe Lys
50 55 60
Asp Asp Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met
65 70 75 80
Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg Asp Asp Phe Glu
85 90 95
Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala
100 105 110
Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys
115 120 125
Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Gln Gly Arg Arg Ala
130 135 140
Ser Gln
145

<210> 304
<211> 146
<212> PRT
<213> Homo sapiens

<400> 304
Cys Tyr Cys Gln Asp Pro Tyr Val Lys Glu Ala Glu Asn Leu Lys Lys
1 5 10 15
Tyr Phe Asn Ala Gly His Ser Asp Val Ala Asp Asn Gly Thr Leu Phe

20 25 30
Leu Gly Ile Leu Lys Asn Trp Lys Glu Glu Ser Asp Arg Lys Ile Met
35 40 45
Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe Gln Asn Phe Lys
50 55 60
Asp Asp Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met
65 70 75 80
Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg Asp Asp Phe Glu
85 90 95
Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala
100 105 110
Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys
115 120 125
Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Gln Gly Arg Arg Ala
130 135 140
Ser Gln
145

<210> 305
<211> 146
<212> PRT
<213> Homo sapiens

<400> 305
Cys Tyr Cys Gln Asp Pro Tyr Val Lys Glu Ala Glu Asn Leu Lys Lys
1 5 10 15
Tyr Phe Asn Ala Gly His Ser Asp Val Ala Asp Asn Gly Thr Leu Phe
20 25 30
Leu Gly Ile Leu Lys Asn Trp Lys Glu Glu Ser Asp Arg Lys Ile Met
35 40 45
Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe Asn Asn Phe Lys
50 55 60
Asp Asp Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met
65 70 75 80
Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg Asp Asp Phe Glu
85 90 95
Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala
100 105 110
Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys
115 120 125
Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Gln Gly Arg Arg Ala
130 135 140
Ser Gln
145

<210> 306
<211> 146
<212> PRT
<213> Homo sapiens

<400> 306
Cys Tyr Cys Gln Asp Pro Tyr Val Lys Glu Ala Glu Asn Leu Lys Lys
1 5 10 15
Tyr Phe Asn Ala Gly His Ser Asp Val Ala Asp Asn Gly Thr Leu Phe
20 25 30

Leu Gly Ile Leu Lys Asn Trp Lys Glu Glu Ser Asp Arg Lys Ile Met
35 40 45
Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe Lys Asn Phe Gln
50 55 60
Asp Asp Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met
65 70 75 80
Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg Asp Asp Phe Glu
85 90 95
Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala
100 105 110
Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys
115 120 125
Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Gln Gly Arg Arg Ala
130 135 140
Ser Gln
145

<210> 307
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<212> PRT
<213> Homo sapiens

<400> 307
Cys Tyr Cys Gln Asp Pro Tyr Val Lys Glu Ala Glu Asn Leu Lys Lys
1 5 10 15
Tyr Phe Asn Ala Gly His Ser Asp Val Ala Asp Asn Gly Thr Leu Phe
20 25 30
Leu Gly Ile Leu Lys Asn Trp Lys Glu Glu Ser Asp Arg Lys Ile Met
35 40 45
Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe Lys Asn Phe Asn
50 55 60
Asp Asp Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met
65 70 75 80
Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg Asp Asp Phe Glu
85 90 95
Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala
100 105 110
Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys
115 120 125
Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Gln Gly Arg Arg Ala
130 135 140
Ser Gln
145

<210> 308
<211> 146
<212> PRT
<213> Homo sapiens

<400> 308
Cys Tyr Cys Gln Asp Pro Tyr Val Lys Glu Ala Glu Asn Leu Lys Lys
1 5 10 15
Tyr Phe Asn Ala Gly His Ser Asp Val Ala Asp Asn Gly Thr Leu Phe
20 25 30
Leu Gly Ile Leu Lys Asn Trp Lys Glu Glu Ser Asp Arg Lys Ile Met

35 40 45
Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe Lys Asn Phe Lys
50 55 60
Gln Asp Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met
65 70 75 80
Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Arg Asp Asp Phe Glu
85 90 95
Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala
100 105 110
Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys
115 120 125
Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Gln Gly Arg Arg Ala
130 135 140
Ser Gln
145

<210> 309
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<212> PRT
<213> Homo sapiens

<400> 309
Cys Tyr Cys Gln Asp Pro Tyr Val Lys Glu Ala Glu Asn Leu Lys Lys
1 5 10 15
Tyr Phe Asn Ala Gly His Ser Asp Val Ala Asp Asn Gly Thr Leu Phe
20 25 30
Leu Gly Ile Leu Lys Asn Trp Lys Glu Glu Ser Asp Arg Lys Ile Met
35 40 45
Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe Lys Asn Phe Lys
50 55 60
Asn Asp Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met
65 70 75 80
Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Arg Asp Asp Phe Glu
85 90 95
Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala
100 105 110
Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys
115 120 125
Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Gln Gly Arg Arg Ala
130 135 140
Ser Gln
145

<210> 310
<211> 146
<212> PRT
<213> Homo sapiens

<400> 310
Cys Tyr Cys Gln Asp Pro Tyr Val Lys Glu Ala Glu Asn Leu Lys Lys
1 5 10 15
Tyr Phe Asn Ala Gly His Ser Asp Val Ala Asp Asn Gly Thr Leu Phe
20 25 30
Leu Gly Ile Leu Lys Asn Trp Lys Glu Glu Ser Asp Arg Lys Ile Met
35 40 45

Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe Lys Asn Phe Lys
50 55 60
Asp Gln Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met
65 70 75 80
Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg Asp Asp Phe Glu
85 90 95
Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala
100 105 110
Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys
115 120 125
Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Gln Gly Arg Arg Ala
130 135 140
Ser Gln
145

<210> 311
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<212> PRT
<213> Homo sapiens

<400> 311
Cys Tyr Cys Gln Asp Pro Tyr Val Lys Glu Ala Glu Asn Leu Lys Lys
1 5 10 15
Tyr Phe Asn Ala Gly His Ser Asp Val Ala Asp Asn Gly Thr Leu Phe
20 25 30
Leu Gly Ile Leu Lys Asn Trp Lys Glu Glu Ser Asp Arg Lys Ile Met
35 40 45
Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe Lys Asn Phe Lys
50 55 60
Asp Asn Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met
65 70 75 80
Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg Asp Asp Phe Glu
85 90 95
Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala
100 105 110
Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys
115 120 125
Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Gln Gly Arg Arg Ala
130 135 140
Ser Gln
145

<210> 312
<211> 160
<212> PRT
<213> Homo sapiens

<400> 312
Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro
1 5 10 15
Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg
20 25 30
Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu
35 40 45
Gln Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala
50 55 60

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu | |
| | | | 85 | | | | | 90 | | | | | | 95 | | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu | |
| | | | 100 | | | | | 105 | | | | | 110 | | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe | |
| | | 115 | | | | | 120 | | | | | 125 | | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp | |
| | 130 | | | | | 135 | | | | | 140 | | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | |

<210> 313

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<212> PRT

<213> Homo sapiens

<400> 313

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Ser | Pro | Gly | Gln | Gly | Thr | Gln | Ser | Glu | Asn | Ser | Cys | Thr | His | Phe | Pro | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg | |
| | | | 20 | | | | | 25 | | | | | 30 | | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu | |
| | | 35 | | | | | 40 | | | | | 45 | | | | |
| Asn | Glu | Ser | Leu | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala | |
| | 50 | | | | | 55 | | | | | 60 | | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu | |
| | | | 85 | | | | | 90 | | | | | | 95 | | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu | |
| | | | 100 | | | | | 105 | | | | | 110 | | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe | |
| | | 115 | | | | | 120 | | | | | 125 | | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp | |
| | 130 | | | | | 135 | | | | | 140 | | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | |

<210> 314

<211> 160

<212> PRT

<213> Homo sapiens

<400> 314

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| Ser | Pro | Gly | Gln | Gly | Thr | Gln | Ser | Glu | Asn | Ser | Cys | Thr | His | Phe | Pro | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg | |
| | | | 20 | | | | | 25 | | | | | 30 | | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu | |
| | | 35 | | | | | 40 | | | | | 45 | | | | |
| Lys | Gln | Ser | Leu | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala | |
| | 50 | | | | | 55 | | | | | 60 | | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
| 145 | | | | | 150 | | | | 155 | | | | | | 160 |

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<400> 315

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Pro | Gly | Gln | Gly | Thr | Gln | Ser | Glu | Asn | Ser | Cys | Thr | His | Phe | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | 35 | | | | | | 40 | | | | | 45 | | | |
| Lys | Asn | Ser | Leu | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
| 145 | | | | | 150 | | | | 155 | | | | | | 160 |

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<400> 316

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Pro | Gly | Gln | Gly | Thr | Gln | Ser | Glu | Asn | Ser | Cys | Thr | His | Phe | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | 35 | | | | | | 40 | | | | | 45 | | | |
| Lys | His | Ser | Leu | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

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| Ser | Pro | Gly | Gln | Gly | Thr | Gln | Ser | Glu | Asn | Ser | Cys | Thr | His | Phe | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Lys | Glu | Ser | Val | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

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<400> 318

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Pro | Gly | Gln | Gly | Thr | Gln | Ser | Glu | Asn | Ser | Cys | Thr | His | Phe | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Lys | Glu | Ser | Ile | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | | | | 85 | | | | | 90 | | | | | 95 | | | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu | | |
| | | | 100 | | | | | | 105 | | | | | 110 | | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe | | |
| | | | 115 | | | | 120 | | | | | | 125 | | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp | | |
| | | | 130 | | | | 135 | | | | | 140 | | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn | | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | | |

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<213> Homo sapiens

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| Lys | Glu | Ser | Leu | Val | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala | | |
| | 50 | | | | | 55 | | | | | 60 | | | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala | | |
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| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu | | |
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| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu | | |
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| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe | | |
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| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp | | |
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| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn | | |
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| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg | | |
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| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu | | |
| | | 35 | | | | 40 | | | | | | 45 | | | | | |
| Lys | Glu | Ser | Leu | Ile | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala | | |
| | 50 | | | | | 55 | | | | | 60 | | | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala | | |
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| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu | | |
| | | | | 85 | | | | | 90 | | | | | 95 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
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| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
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| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
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| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
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| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
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| Lys | Glu | Ser | Leu | Leu | Gln | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
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| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
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| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
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| Lys | Glu | Ser | Leu | Leu | Asn | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |

| | | | | | | | | | | | | | | | | |
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| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe | |
| | 115 | | | | | | 120 | | | | | 125 | | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp | |
| | 130 | | | | | 135 | | | | | 140 | | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn | |
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| 1 | | | | 5 | | | | | 10 | | | | | 15 | | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg | |
| | 20 | | | | | | | 25 | | | | 30 | | | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu | |
| | 35 | | | | | 40 | | | | | 45 | | | | | |
| Lys | Glu | Ser | Leu | Leu | His | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala | |
| | 50 | | | | | 55 | | | | | 60 | | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu | |
| | | | | 85 | | | | | 90 | | | | | 95 | | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu | |
| | | | 100 | | | | | 105 | | | | 110 | | | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe | |
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| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp | |
| | 130 | | | | | 135 | | | | | 140 | | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn | |
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| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg | |
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| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu | |
| | 35 | | | | | 40 | | | | | 45 | | | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Gln | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala | |
| | 50 | | | | | 55 | | | | | 60 | | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu | |
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| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu | |
| | | | 100 | | | | | 105 | | | | 110 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
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| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
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| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | 20 | | | | | 25 | | | | | 30 | | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | 35 | | | | | 40 | | | | | 45 | | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Asn | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
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| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala |
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| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | 85 | | | | | 90 | | | | | | 95 | | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
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| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
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| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
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| Lys | Glu | Ser | Leu | Leu | Glu | Asp | Ile | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
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| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala |
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| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | 85 | | | | | 90 | | | | | | 95 | | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
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| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |

| | | | | | | | | | | | | | | | | |
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| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp | |
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| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn | |
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| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg | |
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| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu | |
| | 35 | | | | | 40 | | | | | 45 | | | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Asp | Val | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala | |
| | 50 | | | | 55 | | | | | 60 | | | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala | |
| 65 | | | | 70 | | | | 75 | | | | | | 80 | | |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu | |
| | | 85 | | | | | 90 | | | | | | 95 | | | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu | |
| | | 100 | | | | | 105 | | | | | 110 | | | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe | |
| | 115 | | | | | 120 | | | | | 125 | | | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp | |
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| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn | |
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| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu | |
| | 35 | | | | | 40 | | | | | 45 | | | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Asp | Phe | Gln | Gly | Tyr | Leu | Gly | Cys | Gln | Ala | |
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| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala | |
| 65 | | | | 70 | | | | 75 | | | | | | 80 | | |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu | |
| | | 85 | | | | | 90 | | | | | | 95 | | | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu | |
| | | 100 | | | | | 105 | | | | | 110 | | | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe | |
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| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
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| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
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| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Asp | Phe | Asn | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | 85 | | | | | | 90 | | | | | 95 | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | | 100 | | | | | | 105 | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

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<212> PRT
<213> Homo sapiens

<400> 330

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Pro | Gly | Gln | Gly | Thr | Gln | Ser | Glu | Asn | Ser | Cys | Thr | His | Phe | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Asp | Phe | Lys | Gly | His | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | 85 | | | | | | 90 | | | | | 95 | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | | 100 | | | | | | 105 | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |

| | | | | |
|---------------------|---------------------|-------------------------|--|-----|
| 130 | | 135 | | 140 |
| Ile Phe Ile Asn Tyr | Ile Glu Ala Tyr Met | Thr Met Lys Ile Arg Asn | | |
| 145 | 150 | 155 | | 160 |

<210> 331
<211> 160
<212> PRT
<213> Homo sapiens

<400> 331

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| Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro | | | | | | | | | | | | | | | | | |
| 1 | | | | 5 | | | | 10 | | | | | | | 15 | | |
| Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg | | | | | | | | | | | | | | | | | |
| | | 20 | | | | | 25 | | | | | | | 30 | | | |
| Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu | | | | | | | | | | | | | | | | | |
| | | 35 | | | | | 40 | | | | | | 45 | | | | |
| Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Ile Leu Gly Cys Gln Ala | | | | | | | | | | | | | | | | | |
| | | 50 | | | | 55 | | | | | | 60 | | | | | |
| Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala | | | | | | | | | | | | | | | | | |
| 65 | | | | | 70 | | | | 75 | | | | | | | 80 | |
| Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu | | | | | | | | | | | | | | | | | |
| | | | 85 | | | | | 90 | | | | | | | | 95 | |
| Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu | | | | | | | | | | | | | | | | | |
| | | 100 | | | | | | 105 | | | | | | | 110 | | |
| Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe | | | | | | | | | | | | | | | | | |
| | | 115 | | | | | 120 | | | | | | 125 | | | | |
| Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp | | | | | | | | | | | | | | | | | |
| | | 130 | | | | 135 | | | | | | 140 | | | | | |
| Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn | | | | | | | | | | | | | | | | | |
| 145 | | | | | 150 | | | | | | | 155 | | | | | 160 |

<210> 332
<211> 160
<212> PRT
<213> Homo sapiens

<400> 332

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| Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro | | | | | | | | | | | | | | | | | |
| 1 | | | | 5 | | | | 10 | | | | | | | 15 | | |
| Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg | | | | | | | | | | | | | | | | | |
| | | 20 | | | | | 25 | | | | | | | 30 | | | |
| Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu | | | | | | | | | | | | | | | | | |
| | | 35 | | | | | 40 | | | | | | 45 | | | | |
| Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Val Gly Cys Gln Ala | | | | | | | | | | | | | | | | | |
| | | 50 | | | | 55 | | | | | | 60 | | | | | |
| Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala | | | | | | | | | | | | | | | | | |
| 65 | | | | | 70 | | | | 75 | | | | | | | 80 | |
| Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu | | | | | | | | | | | | | | | | | |
| | | | 85 | | | | | 90 | | | | | | | | 95 | |
| Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu | | | | | | | | | | | | | | | | | |
| | | 100 | | | | | | 105 | | | | | | | 110 | | |
| Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe | | | | | | | | | | | | | | | | | |
| | | 115 | | | | | 120 | | | | | | 125 | | | | |
| Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp | | | | | | | | | | | | | | | | | |
| | | 130 | | | | 135 | | | | | | 140 | | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

<210> 333
<211> 160
<212> PRT
<213> Homo sapiens

<400> 333

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| Ser | Pro | Gly | Gln | Gly | Thr | Gln | Ser | Glu | Asn | Ser | Cys | Thr | His | Phe | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Ile | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | | 85 | | | | | 90 | | | | | | 95 |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

<210> 334
<211> 160
<212> PRT
<213> Homo sapiens

<400> 334

| | | | | | | | | | | | | | | | |
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| Ser | Pro | Gly | Gln | Gly | Thr | Gln | Ser | Glu | Asn | Ser | Cys | Thr | His | Phe | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Gln | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | | 85 | | | | | 90 | | | | | | 95 |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |

145 150 155 160

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<211> 160
<212> PRT
<213> Homo sapiens

<400> 335
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Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg
20 25 30
Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu
35 40 45
Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala
50 55 60
Leu Ser Asn Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala
65 70 75 80
Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu
85 90 95
Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu
100 105 110
Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe
115 120 125
Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp
130 135 140
Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn
145 150 155 160

<210> 336
<211> 160
<212> PRT
<213> Homo sapiens

<400> 336
Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro
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Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg
20 25 30
Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu
35 40 45
Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala
50 55 60
Leu Ser His Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala
65 70 75 80
Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu
85 90 95
Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu
100 105 110
Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe
115 120 125
Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp
130 135 140
Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn
145 150 155 160

<210> 337
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<213> Homo sapiens

<400> 337
Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro
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Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg
20 25 30
Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu
35 40 45
Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala
50 55 60
Leu Ser Glu Val Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala
65 70 75 80
Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu
85 90 95
Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu
100 105 110
Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe
115 120 125
Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp
130 135 140
Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn
145 150 155 160

<210> 338
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<212> PRT
<213> Homo sapiens

<400> 338
Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro
1 5 10 15
Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg
20 25 30
Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu
35 40 45
Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala
50 55 60
Leu Ser Glu Ile Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala
65 70 75 80
Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu
85 90 95
Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu
100 105 110
Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe
115 120 125
Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp
130 135 140
Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn
145 150 155 160

<210> 339
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<212> PRT
<213> Homo sapiens

<400> 339
Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro
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Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg
20 25 30
Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu
35 40 45
Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala
50 55 60
Leu Ser Glu Met Ile Gln Ile Tyr Leu Glu Glu Val Met Pro Gln Ala
65 70 75 80
Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu
85 90 95
Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu
100 105 110
Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe
115 120 125
Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp
130 135 140
Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn
145 150 155 160

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<211> 160
<212> PRT
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<400> 340
Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro
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Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg
20 25 30
Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu
35 40 45
Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala
50 55 60
Leu Ser Glu Met Ile Gln Val Tyr Leu Glu Glu Val Met Pro Gln Ala
65 70 75 80
Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu
85 90 95
Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu
100 105 110
Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe
115 120 125
Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp
130 135 140
Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn
145 150 155 160

<210> 341
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<400> 341
Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro
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Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg
20 25 30
Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu
35 40 45
Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala
50 55 60
Leu Ser Glu Met Ile Gln Phe His Leu Glu Glu Val Met Pro Gln Ala
65 70 75 80
Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu
85 90 95
Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu
100 105 110
Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe
115 120 125
Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp
130 135 140
Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn
145 150 155 160

<210> 342
<211> 160
<212> PRT
<213> Homo sapiens

<400> 342
Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro
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Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg
20 25 30
Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu
35 40 45
Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala
50 55 60
Leu Ser Glu Met Ile Gln Phe Ile Leu Glu Glu Val Met Pro Gln Ala
65 70 75 80
Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu
85 90 95
Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu
100 105 110
Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe
115 120 125
Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp
130 135 140
Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn
145 150 155 160

<210> 343

<211> 160
<212> PRT
<213> Homo sapiens

<400> 343

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| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Gln | Glu | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

<210> 344
<211> 160
<212> PRT
<213> Homo sapiens

<400> 344

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| Ser | Pro | Gly | Gln | Gly | Thr | Gln | Ser | Glu | Asn | Ser | Cys | Thr | His | Phe | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Asn | Glu | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

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<211> 160

<212> PRT

<213> Homo sapiens

<400> 345

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| Ser | Pro | Gly | Gln | Gly | Thr | Gln | Ser | Glu | Asn | Ser | Cys | Thr | His | Phe | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | His | Glu | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | 85 | | | | | | 90 | | | | | | 95 |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
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<212> PRT

<213> Homo sapiens

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| Ser | Pro | Gly | Gln | Gly | Thr | Gln | Ser | Glu | Asn | Ser | Cys | Thr | His | Phe | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Gln | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | 85 | | | | | | 90 | | | | | | 95 |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
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<212> PRT

<213> Homo sapiens

<400> 347

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| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Asn | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | 85 | | | | | | 90 | | | | | | 95 |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
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<213> Homo sapiens

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| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | His | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | 85 | | | | | | 90 | | | | | | 95 |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
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<212> PRT

<213> Homo sapiens

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| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Ser | Gln | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | 85 | | | | | | 90 | | | | | 95 | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
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<212> PRT

<213> Homo sapiens

<400> 350

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| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Ala | Gln | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | 85 | | | | | | 90 | | | | | 95 | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
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<212> PRT

<213> Homo sapiens

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| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |
| Gln | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | 85 | | | | | 90 | | | | | | 95 | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | 100 | | | | | | 105 | | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | 140 | | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
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<212> PRT

<213> Homo sapiens

<400> 352

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| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |
| Asn | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | 85 | | | | | 90 | | | | | | 95 | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | 100 | | | | | | 105 | | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | 140 | | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
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<212> PRT

<213> Homo sapiens

<400> 353

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| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |
| His | Asn | Gln | Asp | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | 85 | | | | | | 90 | | | | | 95 | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | 100 | | | | | | 105 | | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
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<212> PRT

<213> Homo sapiens

<400> 354

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| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |
| Glu | Asn | Gln | Gln | Pro | Asp | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | 85 | | | | | | 90 | | | | | 95 | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | 100 | | | | | | 105 | | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
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<212> PRT

<213> Homo sapiens

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20 25 30
Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu
35 40 45
Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala
50 55 60
Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala
65 70 75 80
Glu Asn Gln Asn Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu
85 90 95
Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu
100 105 110
Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe
115 120 125
Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp
130 135 140
Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn
145 150 155 160

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<212> PRT

<213> Homo sapiens

<400> 356

Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro
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Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg
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Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu
35 40 45
Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala
50 55 60
Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala
65 70 75 80
Glu Asn Gln Asp Ser Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu
85 90 95
Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu
100 105 110
Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe
115 120 125
Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp
130 135 140
Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn
145 150 155 160

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<212> PRT

<213> Homo sapiens

<400> 357

Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro

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| Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg | | | |
| 20 | 25 | 30 | |
| Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu | | | |
| 35 | 40 | 45 | |
| Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala | | | |
| 50 | 55 | 60 | |
| Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala | | | |
| 65 | 70 | 75 | 80 |
| Glu Asn Gln Asp Ala Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu | | | |
| 85 | 90 | 95 | |
| Asn Leu Lys Thr <u>Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu</u> | | | |
| 100 | 105 | 110 | |
| <u>Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe</u> | | | |
| 115 | 120 | 125 | |
| <u>Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp</u> | | | |
| 130 | 135 | 140 | |
| <u>Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn</u> | | | |
| 145 | 150 | 155 | 160 |

<210> 358
<211> 160
<212> PRT
<213> Homo sapiens

| |
|------------------------------------------------------------------------|
| <400> 358 |
| Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro |
| 1 5 10 15 |
| Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg |
| 20 25 30 |
| Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu |
| 35 40 45 |
| Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala |
| 50 55 60 |
| Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala |
| 65 70 75 80 |
| Glu Asn Gln Asp Pro Gln Ile Lys Ala His Val Asn Ser Leu Gly Glu |
| 85 90 95 |
| Asn Leu Lys Thr <u>Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu</u> |
| 100 105 110 |
| <u>Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe</u> |
| 115 120 125 |
| <u>Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp</u> |
| 130 135 140 |
| <u>Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn</u> |
| 145 150 155 160 |

<210> 359
<211> 160
<212> PRT
<213> Homo sapiens

| |
|-----------------------------------------------------------------|
| <400> 359 |
| Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro |
| 1 5 10 15 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | 35 | | | | | | 40 | | | | | 45 | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |
| Glu | Asn | Gln | Asp | Pro | Asn | Ile | Lys | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
| 145 | | | | | 150 | | | | 155 | | | | | | 160 |

<210> 360

<211> 160

<212> PRT

<213> Homo sapiens

<400> 360

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Pro | Gly | Gln | Gly | Thr | Gln | Ser | Glu | Asn | Ser | Cys | Thr | His | Phe | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |
| | | 20 | | | | | | 25 | | | | 30 | | | |
| Val | Lys | Thr | Phe | Phe | Gln | Met | Lys | Asp | Gln | Leu | Asp | Asn | Leu | Leu | Leu |
| | 35 | | | | | | 40 | | | | | 45 | | | |
| Lys | Glu | Ser | Leu | Leu | Glu | Asp | Phe | Lys | Gly | Tyr | Leu | Gly | Cys | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Glu | Met | Ile | Gln | Phe | Tyr | Leu | Glu | Glu | Val | Met | Pro | Gln | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |
| Glu | Asn | Gln | Asp | Pro | Asp | Ile | Gln | Ala | His | Val | Asn | Ser | Leu | Gly | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Asn | Leu | Lys | Thr | Leu | Arg | Leu | Arg | Leu | Arg | Arg | Cys | His | Arg | Phe | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Pro | Cys | Glu | Asn | Lys | Ser | Lys | Ala | Val | Glu | Gln | Val | Lys | Asn | Ala | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Lys | Leu | Gln | Glu | Lys | Gly | Ile | Tyr | Lys | Ala | Met | Ser | Glu | Phe | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Phe | Ile | Asn | Tyr | Ile | Glu | Ala | Tyr | Met | Thr | Met | Lys | Ile | Arg | Asn |
| 145 | | | | | 150 | | | | 155 | | | | | | 160 |

<210> 361

<211> 160

<212> PRT

<213> Homo sapiens

<400> 361

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Pro | Gly | Gln | Gly | Thr | Gln | Ser | Glu | Asn | Ser | Cys | Thr | His | Phe | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Asn | Leu | Pro | Asn | Met | Leu | Arg | Asp | Leu | Arg | Asp | Ala | Phe | Ser | Arg |

```

      20      25      30
Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu
      35      40      45
Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala
      50      55      60
Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala
65      70      75      80
Glu Asn Gln Asp Pro Asp Ile Asn Ala His Val Asn Ser Leu Gly Glu
      85      90      95
Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu
      100      105      110
Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe
      115      120      125
Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp
      130      135      140
Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn
145      150      155      160
```

<210> 401
<211> 209
<212> PRT
<213> Homo sapiens

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<400> 401
Thr Gln Gln Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1      5      10      15
Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
      20      25      30
Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp
      35      40      45
Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
      50      55      60
Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His
65      70      75      80
Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
      85      90      95
Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
      100      105      110
Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
      115      120      125
Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Trp Ser
      130      135      140
Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu
145      150      155      160
Leu Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala
      165      170      175
Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly
      180      185      190
Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Val Glu
      195      200      205
His
```

<210> 402
<211> 209
<212> PRT
<213> Homo sapiens

<400> 402

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gln | Asn | Cys | Ser | Phe | Gln | His | Ser | Pro | Ile | Ser | Ser | Asp | Phe | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Val | Lys | Ile | Arg | Glu | Leu | Ser | Asp | Tyr | Leu | Leu | Gln | Asp | Tyr | Pro | Val |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Thr | Val | Ala | Ser | Asn | Leu | Gln | Asp | Glu | Glu | Leu | Cys | Gly | Gly | Leu | Trp |
| | 35 | | | | | 40 | | | | | | 45 | | | |
| Arg | Leu | Val | Leu | Ala | Gln | Arg | Trp | Met | Glu | Arg | Leu | Lys | Thr | Val | Ala |
| | 50 | | | | 55 | | | | | | 60 | | | | |
| Gly | Ser | Lys | Met | Gln | Gly | Leu | Leu | Glu | Arg | Val | Asn | Thr | Glu | Ile | His |
| 65 | | | | 70 | | | | | 75 | | | | | 80 | |
| Phe | Val | Thr | Lys | Cys | Ala | Phe | Gln | Pro | Pro | Pro | Ser | Cys | Leu | Arg | Phe |
| | | | 85 | | | | | 90 | | | | | | 95 | |
| Val | Gln | Thr | Asn | Ile | Ser | Arg | Leu | Leu | Gln | Glu | Thr | Ser | Glu | Gln | Leu |
| | | 100 | | | | | | 105 | | | | | 110 | | |
| Val | Ala | Leu | Lys | Pro | Trp | Ile | Thr | Arg | Gln | Asn | Phe | Ser | Arg | Cys | Leu |
| | 115 | | | | | 120 | | | | | 125 | | | | |
| Glu | Leu | Gln | Cys | Gln | Pro | Asp | Ser | Ser | Thr | Leu | Pro | Pro | Pro | Trp | Ser |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Pro | Arg | Pro | Leu | Glu | Ala | Thr | Ala | Pro | Thr | Ala | Pro | Gln | Pro | Pro | Leu |
| 145 | | | | | 150 | | | | 155 | | | | | | 160 |
| Leu | Leu | Leu | Leu | Leu | Leu | Pro | Val | Gly | Leu | Leu | Leu | Leu | Ala | Ala | Ala |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Trp | Cys | Leu | His | Trp | Gln | Arg | Thr | Arg | Arg | Arg | Thr | Pro | Arg | Pro | Gly |
| | | 180 | | | | | | 185 | | | | | 190 | | |
| Glu | Gln | Val | Pro | Pro | Val | Pro | Ser | Pro | Gln | Asp | Leu | Leu | Leu | Val | Glu |
| | | 195 | | | | | 200 | | | | | 205 | | | |

His

<210> 403

<211> 209

<212> PRT

<213> Homo sapiens

<400> 403

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gln | Asp | Cys | Ser | Phe | Gln | His | Ser | Pro | Ile | Ser | Ser | Asp | Phe | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Val | Lys | Ile | Arg | Glu | Leu | Ser | Asp | Tyr | Leu | Leu | Gln | Asp | Tyr | Pro | Val |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Thr | Val | Ala | Ser | Asn | Leu | Gln | Gln | Glu | Glu | Leu | Cys | Gly | Gly | Leu | Trp |
| | 35 | | | | | 40 | | | | | | 45 | | | |
| Arg | Leu | Val | Leu | Ala | Gln | Arg | Trp | Met | Glu | Arg | Leu | Lys | Thr | Val | Ala |
| | 50 | | | | 55 | | | | | | 60 | | | | |
| Gly | Ser | Lys | Met | Gln | Gly | Leu | Leu | Glu | Arg | Val | Asn | Thr | Glu | Ile | His |
| 65 | | | | 70 | | | | | 75 | | | | | 80 | |
| Phe | Val | Thr | Lys | Cys | Ala | Phe | Gln | Pro | Pro | Pro | Ser | Cys | Leu | Arg | Phe |
| | | | 85 | | | | | 90 | | | | | | 95 | |
| Val | Gln | Thr | Asn | Ile | Ser | Arg | Leu | Leu | Gln | Glu | Thr | Ser | Glu | Gln | Leu |
| | | 100 | | | | | | 105 | | | | | 110 | | |
| Val | Ala | Leu | Lys | Pro | Trp | Ile | Thr | Arg | Gln | Asn | Phe | Ser | Arg | Cys | Leu |
| | 115 | | | | | 120 | | | | | 125 | | | | |
| Glu | Leu | Gln | Cys | Gln | Pro | Asp | Ser | Ser | Thr | Leu | Pro | Pro | Pro | Trp | Ser |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Pro | Arg | Pro | Leu | Glu | Ala | Thr | Ala | Pro | Thr | Ala | Pro | Gln | Pro | Pro | Leu |
| 145 | | | | | 150 | | | | 155 | | | | | | 160 |

Leu Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala
165 170 175
Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly
180 185 190
Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu
195 200 205
His

<210> 404
<211> 209
<212> PRT
<213> Homo sapiens

<400> 404
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15
Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30
Thr Val Ala Ser Asn Leu Gln Asn Glu Glu Leu Cys Gly Gly Leu Trp
35 40 45
Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60
Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His
65 70 75 80
Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Ser Cys Leu Arg Phe
85 90 95
Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110
Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125
Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Trp Ser
130 135 140
Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu
145 150 155 160
Leu Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala
165 170 175
Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly
180 185 190
Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu
195 200 205
His

<210> 405
<211> 209
<212> PRT
<213> Homo sapiens

<400> 405
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15
Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30
Thr Val Ala Ser Asn Leu Gln Asp Glu Gln Leu Cys Gly Gly Leu Trp
35 40 45
Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala

50 55 60
Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His
65 70 75 80
Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95
Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110
Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125
Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140
Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu
145 150 155 160
Leu Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala
165 170 175
Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly
180 185 190
Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu
195 200 205
His

<210> 406
<211> 209
<212> PRT
<213> Homo sapiens

<400> 406
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15
Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30
Thr Val Ala Ser Asn Leu Gln Asp Glu Asn Leu Cys Gly Gly Leu Trp
35 40 45
Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60
Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His
65 70 75 80
Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95
Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110
Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125
Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140
Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu
145 150 155 160
Leu Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala
165 170 175
Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly
180 185 190
Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu
195 200 205
His

<210> 407
<211> 209
<212> PRT
<213> Homo sapiens

<400> 407
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15
Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30
Thr Val Ala Ser Asn Leu Gln Asp Glu His Leu Cys Gly Gly Leu Trp
35 40 45
Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60
Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His
65 70 75 80
Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Ser Cys Leu Arg Phe
85 90 95
Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110
Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125
Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Trp Ser
130 135 140
Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu
145 150 155 160
Leu Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala
165 170 175
Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly
180 185 190
Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu
195 200 205
His

<210> 408
<211> 209
<212> PRT
<213> Homo sapiens

<400> 408
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15
Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30
Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Val Cys Gly Gly Leu Trp
35 40 45
Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60
Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His
65 70 75 80
Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Ser Cys Leu Arg Phe
85 90 95
Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110
Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140
Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu
145 150 155 160
Leu Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala
165 170 175
Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly
180 185 190
Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu
195 200 205
His

<210> 409
<211> 209
<212> PRT
<213> Homo sapiens

<400> 409
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15
Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30
Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Ile Cys Gly Gly Leu Trp
35 40 45
Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60
Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His
65 70 75 80
Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95
Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110
Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125
Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140
Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu
145 150 155 160
Leu Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala
165 170 175
Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly
180 185 190
Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu
195 200 205
His

<210> 410
<211> 209
<212> PRT
<213> Homo sapiens

<400> 410
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15
Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val

```

                20                25                30
Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp
                35                40                45
Arg Leu Val Leu Ala Gln His Trp Met Glu Arg Leu Lys Thr Val Ala
                50                55                60
Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His
65                70                75                80
Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
                85                90                95
Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
                100                105                110
Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
                115                120                125
Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
                130                135                140
Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu
145                150                155                160
Leu Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala
                165                170                175
Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly
                180                185                190
Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu
                195                200                205
His
```

<210> 411
<211> 209
<212> PRT
<213> Homo sapiens

```

<400> 411
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1                5                10                15
Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
                20                25                30
Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp
                35                40                45
Arg Leu Val Leu Ala Gln Gln Trp Met Glu Arg Leu Lys Thr Val Ala
                50                55                60
Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His
65                70                75                80
Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
                85                90                95
Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
                100                105                110
Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
                115                120                125
Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
                130                135                140
Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu
145                150                155                160
Leu Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala
                165                170                175
Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly
                180                185                190
Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu
```

195 200 205

His

<210> 412
<211> 209
<212> PRT
<213> Homo sapiens

<400> 412

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gln | Asp | Cys | Ser | Phe | Gln | His | Ser | Pro | Ile | Ser | Ser | Asp | Phe | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Val | Lys | Ile | Arg | Glu | Leu | Ser | Asp | Tyr | Leu | Leu | Gln | Asp | Tyr | Pro | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Thr | Val | Ala | Ser | Asn | Leu | Gln | Asp | Glu | Glu | Leu | Cys | Gly | Gly | Leu | Trp |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Arg | Leu | Val | Leu | Ala | Gln | Arg | Trp | Met | Gln | Arg | Leu | Lys | Thr | Val | Ala |
| | | 50 | | | | 55 | | | | | 60 | | | | |
| Gly | Ser | Lys | Met | Gln | Gly | Leu | Leu | Glu | Arg | Val | Asn | Thr | Glu | Ile | His |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Phe | Val | Thr | Lys | Cys | Ala | Phe | Gln | Pro | Pro | Pro | Ser | Cys | Leu | Arg | Phe |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Val | Gln | Thr | Asn | Ile | Ser | Arg | Leu | Leu | Gln | Glu | Thr | Ser | Glu | Gln | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Val | Ala | Leu | Lys | Pro | Trp | Ile | Thr | Arg | Gln | Asn | Phe | Ser | Arg | Cys | Leu |
| | | | 115 | | | | 120 | | | | | 125 | | | |
| Glu | Leu | Gln | Cys | Gln | Pro | Asp | Ser | Ser | Thr | Leu | Pro | Pro | Pro | Trp | Ser |
| | | | 130 | | | | 135 | | | | 140 | | | | |
| Pro | Arg | Pro | Leu | Glu | Ala | Thr | Ala | Pro | Thr | Ala | Pro | Gln | Pro | Pro | Leu |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Leu | Leu | Leu | Leu | Leu | Leu | Pro | Val | Gly | Leu | Leu | Leu | Leu | Ala | Ala | Ala |
| | | | | | 165 | | | | 170 | | | | | 175 | |
| Trp | Cys | Leu | His | Trp | Gln | Arg | Thr | Arg | Arg | Arg | Thr | Pro | Arg | Pro | Gly |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Glu | Gln | Val | Pro | Pro | Val | Pro | Ser | Pro | Gln | Asp | Leu | Leu | Leu | Val | Glu |
| | | | 195 | | | | | 200 | | | | | | | |

His

<210> 413
<211> 209
<212> PRT
<213> Homo sapiens

<400> 413

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gln | Asp | Cys | Ser | Phe | Gln | His | Ser | Pro | Ile | Ser | Ser | Asp | Phe | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Val | Lys | Ile | Arg | Glu | Leu | Ser | Asp | Tyr | Leu | Leu | Gln | Asp | Tyr | Pro | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Thr | Val | Ala | Ser | Asn | Leu | Gln | Asp | Glu | Glu | Leu | Cys | Gly | Gly | Leu | Trp |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Arg | Leu | Val | Leu | Ala | Gln | Arg | Trp | Met | Asn | Arg | Leu | Lys | Thr | Val | Ala |
| | | 50 | | | | 55 | | | | | 60 | | | | |
| Gly | Ser | Lys | Met | Gln | Gly | Leu | Leu | Glu | Arg | Val | Asn | Thr | Glu | Ile | His |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Phe | Val | Thr | Lys | Cys | Ala | Phe | Gln | Pro | Pro | Pro | Ser | Cys | Leu | Arg | Phe |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Gln | Thr | Asn | Ile | Ser | Arg | Leu | Leu | Gln | Glu | Thr | Ser | Glu | Gln | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Val | Ala | Leu | Lys | Pro | Trp | Ile | Thr | Arg | Gln | Asn | Phe | Ser | Arg | Cys | Leu |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Glu | Leu | Gln | Cys | Gln | Pro | Asp | Ser | Ser | Thr | Leu | Pro | Pro | Pro | Trp | Ser |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Pro | Arg | Pro | Leu | Glu | Ala | Thr | Ala | Pro | Thr | Ala | Pro | Gln | Pro | Pro | Leu |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Leu | Leu | Leu | Leu | Leu | Leu | Pro | Val | Gly | Leu | Leu | Leu | Leu | Ala | Ala | Ala |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Trp | Cys | Leu | His | Trp | Gln | Arg | Thr | Arg | Arg | Arg | Thr | Pro | Arg | Pro | Gly |
| | | | 180 | | | | | 185 | | | | 190 | | | |
| Glu | Gln | Val | Pro | Pro | Val | Pro | Ser | Pro | Gln | Asp | Leu | Leu | Leu | Val | Glu |
| | | 195 | | | | | 200 | | | | | 205 | | | |

His

<210> 414
<211> 209
<212> PRT
<213> Homo sapiens

<400> 414

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gln | Asp | Cys | Ser | Phe | Gln | His | Ser | Pro | Ile | Ser | Ser | Asp | Phe | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Val | Lys | Ile | Arg | Glu | Leu | Ser | Asp | Tyr | Leu | Leu | Gln | Asp | Tyr | Pro | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Thr | Val | Ala | Ser | Asn | Leu | Gln | Asp | Glu | Glu | Leu | Cys | Gly | Gly | Leu | Trp |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Arg | Leu | Val | Leu | Ala | Gln | Arg | Trp | Met | His | Arg | Leu | Lys | Thr | Val | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Gly | Ser | Lys | Met | Gln | Gly | Leu | Leu | Glu | Arg | Val | Asn | Thr | Glu | Ile | His |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Phe | Val | Thr | Lys | Cys | Ala | Phe | Gln | Pro | Pro | Pro | Ser | Cys | Leu | Arg | Phe |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Val | Gln | Thr | Asn | Ile | Ser | Arg | Leu | Leu | Gln | Glu | Thr | Ser | Glu | Gln | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Val | Ala | Leu | Lys | Pro | Trp | Ile | Thr | Arg | Gln | Asn | Phe | Ser | Arg | Cys | Leu |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Glu | Leu | Gln | Cys | Gln | Pro | Asp | Ser | Ser | Thr | Leu | Pro | Pro | Pro | Trp | Ser |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Pro | Arg | Pro | Leu | Glu | Ala | Thr | Ala | Pro | Thr | Ala | Pro | Gln | Pro | Pro | Leu |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Leu | Leu | Leu | Leu | Leu | Leu | Pro | Val | Gly | Leu | Leu | Leu | Leu | Ala | Ala | Ala |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Trp | Cys | Leu | His | Trp | Gln | Arg | Thr | Arg | Arg | Arg | Thr | Pro | Arg | Pro | Gly |
| | | | 180 | | | | | 185 | | | | 190 | | | |
| Glu | Gln | Val | Pro | Pro | Val | Pro | Ser | Pro | Gln | Asp | Leu | Leu | Leu | Val | Glu |
| | | 195 | | | | | 200 | | | | | 205 | | | |

His

<210> 415
<211> 209
<212> PRT
<213> Homo sapiens

<400> 415

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gln | Asp | Cys | Ser | Phe | Gln | His | Ser | Pro | Ile | Ser | Ser | Asp | Phe | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Val | Lys | Ile | Arg | Glu | Leu | Ser | Asp | Tyr | Leu | Leu | Gln | Asp | Tyr | Pro | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Thr | Val | Ala | Ser | Asn | Leu | Gln | Asp | Glu | Glu | Leu | Cys | Gly | Gly | Leu | Trp |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Arg | Leu | Val | Leu | Ala | Gln | Arg | Trp | Met | Glu | His | Leu | Lys | Thr | Val | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Gly | Ser | Lys | Met | Gln | Gly | Leu | Leu | Glu | Arg | Val | Asn | Thr | Glu | Ile | His |
| 65 | | | | | 70 | | | | 75 | | | | | | 80 |
| Phe | Val | Thr | Lys | Cys | Ala | Phe | Gln | Pro | Pro | Pro | Ser | Cys | Leu | Arg | Phe |
| | | | | 85 | | | | 90 | | | | | | 95 | |
| Val | Gln | Thr | Asn | Ile | Ser | Arg | Leu | Leu | Gln | Glu | Thr | Ser | Glu | Gln | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Val | Ala | Leu | Lys | Pro | Trp | Ile | Thr | Arg | Gln | Asn | Phe | Ser | Arg | Cys | Leu |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Glu | Leu | Gln | Cys | Gln | Pro | Asp | Ser | Ser | Thr | Leu | Pro | Pro | Pro | Trp | Ser |
| | 130 | | | | | 135 | | | | 140 | | | | | |
| Pro | Arg | Pro | Leu | Glu | Ala | Thr | Ala | Pro | Thr | Ala | Pro | Gln | Pro | Pro | Leu |
| 145 | | | | | 150 | | | | 155 | | | | | | 160 |
| Leu | Leu | Leu | Leu | Leu | Leu | Pro | Val | Gly | Leu | Leu | Leu | Leu | Ala | Ala | Ala |
| | | | | 165 | | | | 170 | | | | | 175 | | |
| Trp | Cys | Leu | His | Trp | Gln | Arg | Thr | Arg | Arg | Arg | Thr | Pro | Arg | Pro | Gly |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Glu | Gln | Val | Pro | Pro | Val | Pro | Ser | Pro | Gln | Asp | Leu | Leu | Leu | Val | Glu |
| | | 195 | | | | | 200 | | | | | 205 | | | |

His

<210> 416

<211> 209

<212> PRT

<213> Homo sapiens

<400> 416

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gln | Asp | Cys | Ser | Phe | Gln | His | Ser | Pro | Ile | Ser | Ser | Asp | Phe | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Val | Lys | Ile | Arg | Glu | Leu | Ser | Asp | Tyr | Leu | Leu | Gln | Asp | Tyr | Pro | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Thr | Val | Ala | Ser | Asn | Leu | Gln | Asp | Glu | Glu | Leu | Cys | Gly | Gly | Leu | Trp |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Arg | Leu | Val | Leu | Ala | Gln | Arg | Trp | Met | Glu | Gln | Leu | Lys | Thr | Val | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Gly | Ser | Lys | Met | Gln | Gly | Leu | Leu | Glu | Arg | Val | Asn | Thr | Glu | Ile | His |
| 65 | | | | | 70 | | | | 75 | | | | | | 80 |
| Phe | Val | Thr | Lys | Cys | Ala | Phe | Gln | Pro | Pro | Pro | Ser | Cys | Leu | Arg | Phe |
| | | | | 85 | | | | 90 | | | | | | 95 | |
| Val | Gln | Thr | Asn | Ile | Ser | Arg | Leu | Leu | Gln | Glu | Thr | Ser | Glu | Gln | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Val | Ala | Leu | Lys | Pro | Trp | Ile | Thr | Arg | Gln | Asn | Phe | Ser | Arg | Cys | Leu |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Glu | Leu | Gln | Cys | Gln | Pro | Asp | Ser | Ser | Thr | Leu | Pro | Pro | Pro | Trp | Ser |
| | 130 | | | | | 135 | | | | 140 | | | | | |
| Pro | Arg | Pro | Leu | Glu | Ala | Thr | Ala | Pro | Thr | Ala | Pro | Gln | Pro | Pro | Leu |
| 145 | | | | | 150 | | | | 155 | | | | | | 160 |
| Leu | Leu | Leu | Leu | Leu | Leu | Pro | Val | Gly | Leu | Leu | Leu | Leu | Ala | Ala | Ala |

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | 165 | | | | | | 170 | | | | | | 175 |
| Trp | Cys | Leu | His | Trp | Gln | Arg | Thr | Arg | Arg | Arg | Thr | Pro | Arg | Pro | Gly | |
| | | | 180 | | | | | 185 | | | | | 190 | | | |
| Glu | Gln | Val | Pro | Pro | Val | Pro | Ser | Pro | Gln | Asp | Leu | Leu | Leu | Val | Glu | |
| | | | 195 | | | | 200 | | | | | 205 | | | | |

His

<210> 417
<211> 209
<212> PRT
<213> Homo sapiens

<400> 417

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Thr | Gln | Asp | Cys | Ser | Phe | Gln | His | Ser | Pro | Ile | Ser | Ser | Asp | Phe | Ala | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | |
| Val | Lys | Ile | Arg | Glu | Leu | Ser | Asp | Tyr | Leu | Leu | Gln | Asp | Tyr | Pro | Val | |
| | | | 20 | | | | | 25 | | | | | 30 | | | |
| Thr | Val | Ala | Ser | Asn | Leu | Gln | Asp | Glu | Glu | Leu | Cys | Gly | Gly | Leu | Trp | |
| | | 35 | | | | | 40 | | | | | 45 | | | | |
| Arg | Leu | Val | Leu | Ala | Gln | Arg | Trp | Met | Glu | Arg | Leu | Gln | Thr | Val | Ala | |
| | 50 | | | | | 55 | | | | | 60 | | | | | |
| Gly | Ser | Lys | Met | Gln | Gly | Leu | Leu | Glu | Arg | Val | Asn | Thr | Glu | Ile | His | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| Phe | Val | Thr | Lys | Cys | Ala | Phe | Gln | Pro | Pro | Pro | Ser | Cys | Leu | Arg | Phe | |
| | | | | 85 | | | | | 90 | | | | | 95 | | |
| Val | Gln | Thr | Asn | Ile | Ser | Arg | Leu | Leu | Gln | Glu | Thr | Ser | Glu | Gln | Leu | |
| | | | 100 | | | | | 105 | | | | | 110 | | | |
| Val | Ala | Leu | Lys | Pro | Trp | Ile | Thr | Arg | Gln | Asn | Phe | Ser | Arg | Cys | Leu | |
| | | 115 | | | | | 120 | | | | | 125 | | | | |
| Glu | Leu | Gln | Cys | Gln | Pro | Asp | Ser | Ser | Thr | Leu | Pro | Pro | Pro | Trp | Ser | |
| | | 130 | | | | 135 | | | | | 140 | | | | | |
| Pro | Arg | Pro | Leu | Glu | Ala | Thr | Ala | Pro | Thr | Ala | Pro | Gln | Pro | Pro | Leu | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | |
| Leu | Leu | Leu | Leu | Leu | Leu | Pro | Val | Gly | Leu | Leu | Leu | Leu | Ala | Ala | Ala | |
| | | | | 165 | | | | 170 | | | | | | | | |
| Trp | Cys | Leu | His | Trp | Gln | Arg | Thr | Arg | Arg | Arg | Thr | Pro | Arg | Pro | Gly | |
| | | | 180 | | | | | 185 | | | | | 190 | | | |
| Glu | Gln | Val | Pro | Pro | Val | Pro | Ser | Pro | Gln | Asp | Leu | Leu | Leu | Val | Glu | |
| | | | 195 | | | | 200 | | | | | 205 | | | | |

His

<210> 418
<211> 209
<212> PRT
<213> Homo sapiens

<400> 418

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Thr | Gln | Asp | Cys | Ser | Phe | Gln | His | Ser | Pro | Ile | Ser | Ser | Asp | Phe | Ala | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | |
| Val | Lys | Ile | Arg | Glu | Leu | Ser | Asp | Tyr | Leu | Leu | Gln | Asp | Tyr | Pro | Val | |
| | | | 20 | | | | | 25 | | | | | 30 | | | |
| Thr | Val | Ala | Ser | Asn | Leu | Gln | Asp | Glu | Glu | Leu | Cys | Gly | Gly | Leu | Trp | |
| | | 35 | | | | | 40 | | | | | 45 | | | | |
| Arg | Leu | Val | Leu | Ala | Gln | Arg | Trp | Met | Glu | Arg | Leu | Asn | Thr | Val | Ala | |
| | 50 | | | | | 55 | | | | | 60 | | | | | |

Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His
65 70 75 80
Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95
Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110
Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125
Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140
Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu
145 150 155 160
Leu Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala
165 170 175
Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly
180 185 190
Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu
195 200 205
His

<210> 419
<211> 209
<212> PRT
<213> Homo sapiens

<400> 419
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15
Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30
Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp
35 40 45
Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60
Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His
65 70 75 80
Phe Val Thr Lys Cys Ala Phe Gln Ser Pro Pro Ser Cys Leu Arg Phe
85 90 95
Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110
Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125
Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140
Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu
145 150 155 160
Leu Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala
165 170 175
Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly
180 185 190
Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu
195 200 205
His

<210> 420

<211> 209
<212> PRT
<213> Homo sapiens

<400> 420
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15
Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30
Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp
35 40 45
Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60
Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His
65 70 75 80
Phe Val Thr Lys Cys Ala Phe Gln Ala Pro Pro Ser Cys Leu Arg Phe
85 90 95
Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110
Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125
Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140
Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu
145 150 155 160
Leu Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala
165 170 175
Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly
180 185 190
Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu
195 200 205
His

<210> 421
<211> 209
<212> PRT
<213> Homo sapiens

<400> 421
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15
Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30
Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp
35 40 45
Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60
Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His
65 70 75 80
Phe Val Thr Lys Cys Ala Phe Gln Pro Ser Pro Ser Cys Leu Arg Phe
85 90 95
Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110
Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125
Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser

130 135 140
Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu
145 150 155 160
Leu Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala
165 170 175
Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly
180 185 190
Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu
195 200 205
His

<210> 422
<211> 209
<212> PRT
<213> Homo sapiens

<400> 422
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15
Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30
Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp
35 40 45
Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60
Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His
65 70 75 80
Phe Val Thr Lys Cys Ala Phe Gln Pro Ala Pro Ser Cys Leu Arg Phe
85 90 95
Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110
Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125
Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140
Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu
145 150 155 160
Leu Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala
165 170 175
Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly
180 185 190
Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu
195 200 205
His

<210> 423
<211> 209
<212> PRT
<213> Homo sapiens

<400> 423
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15
Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp
35 40 45
Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60
Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His
65 70 75 80
Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Ser Ser Cys Leu Arg Phe
85 90 95
Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110
Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125
Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140
Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu
145 150 155 160
Leu Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala
165 170 175
Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly
180 185 190
Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu
195 200 205
His

<210> 424
<211> 209
<212> PRT
<213> Homo sapiens

<400> 424
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15
Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30
Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp
35 40 45
Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60
Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His
65 70 75 80
Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Ala Ser Cys Leu Arg Phe
85 90 95
Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110
Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125
Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140
Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu
145 150 155 160
Leu Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala
165 170 175
Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly
180 185 190
Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu
195 200 205

His

<210> 425
<211> 209
<212> PRT
<213> Homo sapiens

<400> 425
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15
Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30
Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp
35 40 45
Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60
Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His
65 70 75 80
Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu His Phe
85 90 95
Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110
Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125
Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Trp Ser
130 135 140
Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu
145 150 155 160
Leu Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala
165 170 175
Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly
180 185 190
Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu
195 200 205

His

<210> 426
<211> 209
<212> PRT
<213> Homo sapiens

<400> 426
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15
Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30
Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp
35 40 45
Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60
Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His
65 70 75 80
Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Gln Phe
85 90 95
Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | 100 | | | | | | | 105 | | | | | | 110 | | | |
| Val | Ala | Leu | Lys | Pro | Trp | Ile | Thr | Arg | Gln | Asn | Phe | Ser | Arg | Cys | Leu | | |
| | 115 | | | | | | 120 | | | | | 125 | | | | | |
| Glu | Leu | Gln | Cys | Gln | Pro | Asp | Ser | Ser | Thr | Leu | Pro | Pro | Pro | Trp | Ser | | |
| | 130 | | | | | 135 | | | | | 140 | | | | | | |
| Pro | Arg | Pro | Leu | Glu | Ala | Thr | Ala | Pro | Thr | Ala | Pro | Gln | Pro | Pro | Leu | | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | | |
| Leu | Leu | Leu | Leu | Leu | Leu | Pro | Val | Gly | Leu | Leu | Leu | Leu | Ala | Ala | Ala | | |
| | | | 165 | | | | | 170 | | | | | | | 175 | | |
| Trp | Cys | Leu | His | Trp | Gln | Arg | Thr | Arg | Arg | Arg | Thr | Pro | Arg | Pro | Gly | | |
| | | 180 | | | | | 185 | | | | | 190 | | | | | |
| Glu | Gln | Val | Pro | Pro | Val | Pro | Ser | Pro | Gln | Asp | Leu | Leu | Leu | Val | Glu | | |
| | 195 | | | | | 200 | | | | | 205 | | | | | | |

His

<210> 427
<211> 209
<212> PRT
<213> Homo sapiens

<400> 427

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Thr | Gln | Asp | Cys | Ser | Phe | Gln | His | Ser | Pro | Ile | Ser | Ser | Asp | Phe | Ala | | |
| 1 | | | 5 | | | | | 10 | | | | | 15 | | | | |
| Val | Lys | Ile | Arg | Glu | Leu | Ser | Asp | Tyr | Leu | Leu | Gln | Asp | Tyr | Pro | Val | | |
| | | 20 | | | | | 25 | | | | 30 | | | | | | |
| Thr | Val | Ala | Ser | Asn | Leu | Gln | Asp | Glu | Glu | Leu | Cys | Gly | Gly | Leu | Trp | | |
| | 35 | | | | | 40 | | | | 45 | | | | | | | |
| Arg | Leu | Val | Leu | Ala | Gln | Arg | Trp | Met | Glu | Arg | Leu | Lys | Thr | Val | Ala | | |
| | 50 | | | | 55 | | | | 60 | | | | | | | | |
| Gly | Ser | Lys | Met | Gln | Gly | Leu | Leu | Glu | Arg | Val | Asn | Thr | Glu | Ile | His | | |
| 65 | | | | 70 | | | | 75 | | | | | | 80 | | | |
| Phe | Val | Thr | Lys | Cys | Ala | Phe | Gln | Pro | Pro | Pro | Ser | Cys | Leu | Arg | Ile | | |
| | | | 85 | | | | | 90 | | | | | 95 | | | | |
| Val | Gln | Thr | Asn | Ile | Ser | Arg | Leu | Leu | Gln | Glu | Thr | Ser | Glu | Gln | Leu | | |
| | 100 | | | | | | 105 | | | | 110 | | | | | | |
| Val | Ala | Leu | Lys | Pro | Trp | Ile | Thr | Arg | Gln | Asn | Phe | Ser | Arg | Cys | Leu | | |
| | 115 | | | | | | 120 | | | | 125 | | | | | | |
| Glu | Leu | Gln | Cys | Gln | Pro | Asp | Ser | Ser | Thr | Leu | Pro | Pro | Pro | Trp | Ser | | |
| | 130 | | | | | 135 | | | | 140 | | | | | | | |
| Pro | Arg | Pro | Leu | Glu | Ala | Thr | Ala | Pro | Thr | Ala | Pro | Gln | Pro | Pro | Leu | | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | | |
| Leu | Leu | Leu | Leu | Leu | Leu | Pro | Val | Gly | Leu | Leu | Leu | Leu | Ala | Ala | Ala | | |
| | | | 165 | | | | | 170 | | | | | | | 175 | | |
| Trp | Cys | Leu | His | Trp | Gln | Arg | Thr | Arg | Arg | Arg | Thr | Pro | Arg | Pro | Gly | | |
| | | 180 | | | | | 185 | | | | 190 | | | | | | |
| Glu | Gln | Val | Pro | Pro | Val | Pro | Ser | Pro | Gln | Asp | Leu | Leu | Leu | Val | Glu | | |
| | 195 | | | | | 200 | | | | | 205 | | | | | | |

His

<210> 428
<211> 209
<212> PRT
<213> Homo sapiens

<400> 428

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gln | Asp | Cys | Ser | Phe | Gln | His | Ser | Pro | Ile | Ser | Ser | Asp | Phe | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Val | Lys | Ile | Arg | Glu | Leu | Ser | Asp | Tyr | Leu | Leu | Gln | Asp | Tyr | Pro | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Thr | Val | Ala | Ser | Asn | Leu | Gln | Asp | Glu | Glu | Leu | Cys | Gly | Gly | Leu | Trp |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Arg | Leu | Val | Leu | Ala | Gln | Arg | Trp | Met | Glu | Arg | Leu | Lys | Thr | Val | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Gly | Ser | Lys | Met | Gln | Gly | Leu | Leu | Glu | Arg | Val | Asn | Thr | Glu | Ile | His |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Phe | Val | Thr | Lys | Cys | Ala | Phe | Gln | Pro | Pro | Pro | Ser | Cys | Leu | Arg | Val |
| | | | | 85 | | | | 90 | | | | | | 95 | |
| Val | Gln | Thr | Asn | Ile | Ser | Arg | Leu | Leu | Gln | Glu | Thr | Ser | Glu | Gln | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Val | Ala | Leu | Lys | Pro | Trp | Ile | Thr | Arg | Gln | Asn | Phe | Ser | Arg | Cys | Leu |
| | | 115 | | | | | | 120 | | | | 125 | | | |
| Glu | Leu | Gln | Cys | Gln | Pro | Asp | Ser | Ser | Thr | Leu | Pro | Pro | Pro | Trp | Ser |
| | | 130 | | | | 135 | | | | | 140 | | | | |
| Pro | Arg | Pro | Leu | Glu | Ala | Thr | Ala | Pro | Thr | Ala | Pro | Gln | Pro | Pro | Leu |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Leu | Leu | Leu | Leu | Leu | Leu | Pro | Val | Gly | Leu | Leu | Leu | Leu | Ala | Ala | Ala |
| | | | | 165 | | | | 170 | | | | | 175 | | |
| Trp | Cys | Leu | His | Trp | Gln | Arg | Thr | Arg | Arg | Arg | Thr | Pro | Arg | Pro | Gly |
| | | | 180 | | | | | 185 | | | | 190 | | | |
| Glu | Gln | Val | Pro | Pro | Val | Pro | Ser | Pro | Gln | Asp | Leu | Leu | Leu | Val | Glu |
| | | 195 | | | | | 200 | | | | 205 | | | | |

His

<210> 499
 <211> 248
 <212> PRT
 <213> Homo sapiens

<400> 499

| | | | | | | | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Glu | Gly | Ile | Cys | Arg | Asn | Arg | Val | Thr | Asn | Asn | Val | Lys | Asp | Val | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Lys | Leu | Val | Ala | Asn | Leu | Pro | Lys | Asp | Tyr | Val | Ile | Thr | Leu | Lys | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Pro | Gly | Met | Asp | Val | Leu | Pro | Ser | His | Cys | Trp | Ile | Ser | Glu | Met |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Val | Val | Gln | Leu | Ser | Asp | Ser | Leu | Thr | Asp | Leu | Leu | Asp | Lys | Phe | Ser |
| | 50 | | | | | 55 | | | | 60 | | | | | |
| Asn | Ile | Ser | Glu | Gly | Leu | Ser | Asn | Tyr | Ser | Ile | Ile | Asp | Lys | Leu | Val |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Asn | Ile | Val | Asp | Asp | Leu | Val | Glu | Cys | Val | Lys | Glu | Asn | Ser | Ser | Lys |
| | | | 85 | | | | | 90 | | | | | | 95 | |
| Asp | Leu | Lys | Lys | Ser | Phe | Lys | Ser | Pro | Glu | Pro | Arg | Leu | Phe | Thr | Pro |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Glu | Glu | Phe | Phe | Arg | Ile | Phe | Asn | Arg | Ser | Ile | Asp | Ala | Phe | Lys | Asp |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Phe | Val | Val | Ala | Ser | Glu | Thr | Ser | Asp | Cys | Val | Val | Ser | <u>Ser</u> | <u>Thr</u> | <u>Leu</u> |
| | | 130 | | | | 135 | | | | | 140 | | | | |
| <u>Ser</u> | <u>Pro</u> | <u>Glu</u> | <u>Lys</u> | <u>Asp</u> | <u>Ser</u> | <u>Arg</u> | <u>Val</u> | <u>Ser</u> | <u>Val</u> | <u>Thr</u> | <u>Lys</u> | <u>Pro</u> | <u>Phe</u> | <u>Met</u> | <u>Leu</u> |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Pro | Pro | Val | Ala | Ala | Ser | Ser | Leu | Arg | Asn | Asp | Ser | Ser | Ser | Ser | Asn |
| | | | | 165 | | | | | 170 | | | | | 175 | |

Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 500
<211> 248
<212> PRT
<213> Homo sapiens

<400> 500
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
1 5 10 15
Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Ile Ile Thr Leu Lys Tyr
20 25 30
Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95
Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 501
<211> 248
<212> PRT
<213> Homo sapiens

<400> 501

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Gly | Ile | Cys | Arg | Asn | Arg | Val | Thr | Asn | Asn | Val | Lys | Asp | Val | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Lys | Leu | Val | Ala | Asn | Leu | Pro | Lys | Asp | Tyr | Met | Ile | Thr | Leu | Gln | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Pro | Gly | Met | Asp | Val | Leu | Pro | Ser | His | Cys | Trp | Ile | Ser | Glu | Met |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Val | Val | Gln | Leu | Ser | Asp | Ser | Leu | Thr | Asp | Leu | Leu | Asp | Lys | Phe | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Asn | Ile | Ser | Glu | Gly | Leu | Ser | Asn | Tyr | Ser | Ile | Ile | Asp | Lys | Leu | Val |
| 65 | | | | | 70 | | | | 75 | | | | | | 80 |
| Asn | Ile | Val | Asp | Asp | Leu | Val | Glu | Cys | Val | Lys | Glu | Asn | Ser | Ser | Lys |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Asp | Leu | Lys | Lys | Ser | Phe | Lys | Ser | Pro | Glu | Pro | Arg | Leu | Phe | Thr | Pro |
| | | | 100 | | | | | 105 | | | | | | 110 | |
| Glu | Glu | Phe | Phe | Arg | Ile | Phe | Asn | Arg | Ser | Ile | Asp | Ala | Phe | Lys | Asp |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Phe | Val | Val | Ala | Ser | Glu | Thr | Ser | Asp | Cys | Val | Val | Ser | Ser | Thr | Leu |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ser | Pro | Glu | Lys | Asp | Ser | Arg | Val | Ser | Val | Thr | Lys | Pro | Phe | Met | Leu |
| 145 | | | | | 150 | | | | 155 | | | | | | 160 |
| Pro | Pro | Val | Ala | Ala | Ser | Ser | Leu | Arg | Asn | Asp | Ser | Ser | Ser | Ser | Asn |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Arg | Lys | Ala | Lys | Asn | Pro | Pro | Gly | Asp | Ser | Ser | Leu | His | Trp | Ala | Ala |
| | | 180 | | | | | | 185 | | | | | 190 | | |
| Met | Ala | Leu | Pro | Ala | Leu | Phe | Ser | Leu | Ile | Ile | Gly | Phe | Ala | Phe | Gly |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Ala | Leu | Tyr | Trp | Lys | Lys | Arg | Gln | Pro | Ser | Leu | Thr | Arg | Ala | Val | Glu |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Asn | Ile | Gln | Ile | Asn | Glu | Glu | Asp | Asn | Glu | Ile | Ser | Met | Leu | Gln | Glu |
| 225 | | | | | 230 | | | | 235 | | | | | | 240 |
| Lys | Glu | Arg | Glu | Phe | Gln | Glu | Val | | | | | | | | |
| | | | | | 245 | | | | | | | | | | |

<210> 502

<211> 248

<212> PRT

<213> Homo sapiens

<400> 502

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Gly | Ile | Cys | Arg | Asn | Arg | Val | Thr | Asn | Asn | Val | Lys | Asp | Val | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Lys | Leu | Val | Ala | Asn | Leu | Pro | Lys | Asp | Tyr | Met | Ile | Thr | Leu | Asn | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Pro | Gly | Met | Asp | Val | Leu | Pro | Ser | His | Cys | Trp | Ile | Ser | Glu | Met |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Val | Val | Gln | Leu | Ser | Asp | Ser | Leu | Thr | Asp | Leu | Leu | Asp | Lys | Phe | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Asn | Ile | Ser | Glu | Gly | Leu | Ser | Asn | Tyr | Ser | Ile | Ile | Asp | Lys | Leu | Val |
| 65 | | | | | 70 | | | | 75 | | | | | | 80 |
| Asn | Ile | Val | Asp | Asp | Leu | Val | Glu | Cys | Val | Lys | Glu | Asn | Ser | Ser | Lys |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Asp | Leu | Lys | Lys | Ser | Phe | Lys | Ser | Pro | Glu | Pro | Arg | Leu | Phe | Thr | Pro |
| | | | 100 | | | | | 105 | | | | | | 110 | |
| Glu | Glu | Phe | Phe | Arg | Ile | Phe | Asn | Arg | Ser | Ile | Asp | Ala | Phe | Lys | Asp |
| | | 115 | | | | | 120 | | | | | 125 | | | |

Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 503
<211> 248
<212> PRT
<213> Homo sapiens

<400> 503
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
1 5 10 15
Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
20 25 30
Val Ser Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95
Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 504
<211> 248
<212> PRT
<213> Homo sapiens

<400> 504
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
1 5 10 15
Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
20 25 30
Val Ala Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95
Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 505
<211> 248
<212> PRT
<213> Homo sapiens

<400> 505
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
1 5 10 15
Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
20 25 30
Val Pro Gly Met Gln Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80

Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95
Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 506
<211> 248
<212> PRT
<213> Homo sapiens

<400> 506
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
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Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
20 25 30
Val Pro Gly Met Asn Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95
Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu

<400> 508
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
1 5 10 15
Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
20 25 30

Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asn Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95
Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 509
<211> 248
<212> PRT
<213> Homo sapiens

<400> 509
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
1 5 10 15
Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
20 25 30
Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Gln Leu Leu Asp Lys Phe Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95
Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | | | | 165 | | | | | 170 | | | | | 175 | | | |
| Arg | Lys | Ala | Lys | Asn | Pro | Pro | Gly | Asp | Ser | Ser | Leu | His | Trp | Ala | Ala | | |
| | | | 180 | | | | | 185 | | | | | 190 | | | | |
| Met | Ala | Leu | Pro | Ala | Leu | Phe | Ser | Leu | Ile | Ile | Gly | Phe | Ala | Phe | Gly | | |
| | | 195 | | | | | 200 | | | | | 205 | | | | | |
| Ala | Leu | Tyr | Trp | Lys | Lys | Arg | Gln | Pro | Ser | Leu | Thr | Arg | Ala | Val | Glu | | |
| | 210 | | | | | 215 | | | | | 220 | | | | | | |
| Asn | Ile | Gln | Ile | Asn | Glu | Glu | Asp | Asn | Glu | Ile | Ser | Met | Leu | Gln | Glu | | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | | |
| Lys | Glu | Arg | Glu | Phe | Gln | Glu | Val | | | | | | | | | | |
| | | | | 245 | | | | | | | | | | | | | |

<210> 510
<211> 248
<212> PRT
<213> Homo sapiens

<400> 510

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Glu | Gly | Ile | Cys | Arg | Asn | Arg | Val | Thr | Asn | Asn | Val | Lys | Asp | Val | Thr | | |
| 1 | | | 5 | | | | | | 10 | | | | | 15 | | | |
| Lys | Leu | Val | Ala | Asn | Leu | Pro | Lys | Asp | Tyr | Met | Ile | Thr | Leu | Lys | Tyr | | |
| | | 20 | | | | | | 25 | | | | | 30 | | | | |
| Val | Pro | Gly | Met | Asp | Val | Leu | Pro | Ser | His | Cys | Trp | Ile | Ser | Glu | Met | | |
| | 35 | | | | | | 40 | | | | | 45 | | | | | |
| Val | Val | Gln | Leu | Ser | Asp | Ser | Leu | Thr | Asn | Leu | Leu | Asp | Lys | Phe | Ser | | |
| | 50 | | | | | 55 | | | | | 60 | | | | | | |
| Asn | Ile | Ser | Glu | Gly | Leu | Ser | Asn | Tyr | Ser | Ile | Ile | Asp | Lys | Leu | Val | | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | | |
| Asn | Ile | Val | Asp | Asp | Leu | Val | Glu | Cys | Val | Lys | Glu | Asn | Ser | Ser | Lys | | |
| | | | 85 | | | | | | 90 | | | | | 95 | | | |
| Asp | Leu | Lys | Lys | Ser | Phe | Lys | Ser | Pro | Glu | Pro | Arg | Leu | Phe | Thr | Pro | | |
| | | 100 | | | | | | 105 | | | | | | 110 | | | |
| Glu | Glu | Phe | Arg | Ile | Phe | Asn | Arg | Ser | Ile | Asp | Ala | Phe | Lys | Asp | | | |
| | 115 | | | | | | 120 | | | | 125 | | | | | | |
| Phe | Val | Val | Ala | Ser | Glu | Thr | Ser | Asp | Cys | Val | Val | Ser | Ser | Thr | Leu | | |
| | 130 | | | | | 135 | | | | | 140 | | | | | | |
| Ser | Pro | Glu | Lys | Asp | Ser | Arg | Val | Ser | Val | Thr | Lys | Pro | Phe | Met | Leu | | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | | |
| Pro | Pro | Val | Ala | Ala | Ser | Ser | Leu | Arg | Asn | Asp | Ser | Ser | Ser | Ser | Asn | | |
| | | | 165 | | | | | | 170 | | | | | 175 | | | |
| Arg | Lys | Ala | Lys | Asn | Pro | Pro | Gly | Asp | Ser | Ser | Leu | His | Trp | Ala | Ala | | |
| | | 180 | | | | | | 185 | | | | | 190 | | | | |
| Met | Ala | Leu | Pro | Ala | Leu | Phe | Ser | Leu | Ile | Ile | Gly | Phe | Ala | Phe | Gly | | |
| | | 195 | | | | | 200 | | | | | 205 | | | | | |
| Ala | Leu | Tyr | Trp | Lys | Lys | Arg | Gln | Pro | Ser | Leu | Thr | Arg | Ala | Val | Glu | | |
| | 210 | | | | | 215 | | | | | 220 | | | | | | |
| Asn | Ile | Gln | Ile | Asn | Glu | Glu | Asp | Asn | Glu | Ile | Ser | Met | Leu | Gln | Glu | | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | | |
| Lys | Glu | Arg | Glu | Phe | Gln | Glu | Val | | | | | | | | | | |
| | | | | 245 | | | | | | | | | | | | | |

<210> 511
<211> 248
<212> PRT
<213> Homo sapiens

<400> 511

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Gly | Ile | Cys | Arg | Asn | Arg | Val | Thr | Asn | Asn | Val | Lys | Asp | Val | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Lys | Leu | Val | Ala | Asn | Leu | Pro | Lys | Asp | Tyr | Met | Ile | Thr | Leu | Lys | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Pro | Gly | Met | Asp | Val | Leu | Pro | Ser | His | Cys | Trp | Ile | Ser | Glu | Met |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Val | Val | Gln | Leu | Ser | Asp | Ser | Leu | Thr | Asp | Leu | Leu | Gln | Lys | Phe | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Asn | Ile | Ser | Glu | Gly | Leu | Ser | Asn | Tyr | Ser | Ile | Ile | Asp | Lys | Leu | Val |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |
| Asn | Ile | Val | Asp | Asp | Leu | Val | Glu | Cys | Val | Lys | Glu | Asn | Ser | Ser | Lys |
| | | | 85 | | | | | 90 | | | | | 95 | | |
| Asp | Leu | Lys | Lys | Ser | Phe | Lys | Ser | Pro | Glu | Pro | Arg | Leu | Phe | Thr | Pro |
| | | 100 | | | | | | 105 | | | | | 110 | | |
| Glu | Glu | Phe | Phe | Arg | Ile | Phe | Asn | Arg | Ser | Ile | Asp | Ala | Phe | Lys | Asp |
| | | 115 | | | | 120 | | | | | | 125 | | | |
| Phe | Val | Val | Ala | Ser | Glu | Thr | Ser | Asp | Cys | Val | Val | Ser | Ser | Thr | Leu |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ser | Pro | Glu | Lys | Asp | Ser | Arg | Val | Ser | Val | Thr | Lys | Pro | Phe | Met | Leu |
| 145 | | | | | 150 | | | | | 155 | | | | 160 | |
| Pro | Pro | Val | Ala | Ala | Ser | Ser | Leu | Arg | Asn | Asp | Ser | Ser | Ser | Ser | Asn |
| | | | 165 | | | | | | 170 | | | | | 175 | |
| Arg | Lys | Ala | Lys | Asn | Pro | Pro | Gly | Asp | Ser | Ser | Leu | His | Trp | Ala | Ala |
| | | 180 | | | | | | 185 | | | | | 190 | | |
| Met | Ala | Leu | Pro | Ala | Leu | Phe | Ser | Leu | Ile | Ile | Gly | Phe | Ala | Phe | Gly |
| | | 195 | | | | 200 | | | | | 205 | | | | |
| Ala | Leu | Tyr | Trp | Lys | Lys | Arg | Gln | Pro | Ser | Leu | Thr | Arg | Ala | Val | Glu |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Asn | Ile | Gln | Ile | Asn | Glu | Glu | Asp | Asn | Glu | Ile | Ser | Met | Leu | Gln | Glu |
| 225 | | | | | 230 | | | | | 235 | | | | 240 | |
| Lys | Glu | Arg | Glu | Phe | Gln | Glu | Val | | | | | | | | |
| | | | 245 | | | | | | | | | | | | |

<210> 512

<211> 248

<212> PRT

<213> Homo sapiens

<400> 512

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Gly | Ile | Cys | Arg | Asn | Arg | Val | Thr | Asn | Asn | Val | Lys | Asp | Val | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Lys | Leu | Val | Ala | Asn | Leu | Pro | Lys | Asp | Tyr | Met | Ile | Thr | Leu | Lys | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Pro | Gly | Met | Asp | Val | Leu | Pro | Ser | His | Cys | Trp | Ile | Ser | Glu | Met |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Val | Val | Gln | Leu | Ser | Asp | Ser | Leu | Thr | Asp | Leu | Leu | Asn | Lys | Phe | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Asn | Ile | Ser | Glu | Gly | Leu | Ser | Asn | Tyr | Ser | Ile | Ile | Asp | Lys | Leu | Val |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |
| Asn | Ile | Val | Asp | Asp | Leu | Val | Glu | Cys | Val | Lys | Glu | Asn | Ser | Ser | Lys |
| | | | 85 | | | | | 90 | | | | | 95 | | |
| Asp | Leu | Lys | Lys | Ser | Phe | Lys | Ser | Pro | Glu | Pro | Arg | Leu | Phe | Thr | Pro |
| | | 100 | | | | | | 105 | | | | | 110 | | |
| Glu | Glu | Phe | Phe | Arg | Ile | Phe | Asn | Arg | Ser | Ile | Asp | Ala | Phe | Lys | Asp |

115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 513
<211> 248
<212> PRT
<213> Homo sapiens

<400> 513
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
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Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
20 25 30
Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Gln Phe Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95
Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 514
<211> 248
<212> PRT
<213> Homo sapiens

<400> 514
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
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Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
20 25 30
Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Asn Phe Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95
Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 515
<211> 248
<212> PRT
<213> Homo sapiens

<400> 515
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
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Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
20 25 30
Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Ile Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val

65 70 75 80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95
Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 516
<211> 248
<212> PRT
<213> Homo sapiens

<400> 516
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
1 5 10 15
Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
20 25 30
Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Val Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95
Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205

Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 517
<211> 248
<212> PRT
<213> Homo sapiens

<400> 517
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
1 5 10 15
Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
20 25 30
Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Gln
85 90 95
Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 518
<211> 248
<212> PRT
<213> Homo sapiens

<400> 518
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
1 5 10 15
Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 20 | | | | | | 25 | | | | | 30 | | | |
| Val | Pro | Gly | Met | Asp | Val | Leu | Pro | Ser | His | Cys | Trp | Ile | Ser | Glu | Met |
| | 35 | | | | | | 40 | | | | | 45 | | | |
| Val | Val | Gln | Leu | Ser | Asp | Ser | Leu | Thr | Asp | Leu | Leu | Asp | Lys | Phe | Ser |
| | 50 | | | | | | 55 | | | | | 60 | | | |
| Asn | Ile | Ser | Glu | Gly | Leu | Ser | Asn | Tyr | Ser | Ile | Ile | Asp | Lys | Leu | Val |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Asn | Ile | Val | Asp | Asp | Leu | Val | Glu | Cys | Val | Lys | Glu | Asn | Ser | Ser | Asn |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Asp | Leu | Lys | Lys | Ser | Phe | Lys | Ser | Pro | Glu | Pro | Arg | Leu | Phe | Thr | Pro |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Glu | Glu | Phe | Phe | Arg | Ile | Phe | Asn | Arg | Ser | Ile | Asp | Ala | Phe | Lys | Asp |
| | | | 115 | | | | 120 | | | | | 125 | | | |
| Phe | Val | Val | Ala | Ser | Glu | Thr | Ser | Asp | Cys | Val | Val | Ser | Ser | Thr | Leu |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ser | Pro | Glu | Lys | Asp | Ser | Arg | Val | Ser | Val | Thr | Lys | Pro | Phe | Met | Leu |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Pro | Pro | Val | Ala | Ala | Ser | Ser | Leu | Arg | Asn | Asp | Ser | Ser | Ser | Ser | Asn |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Arg | Lys | Ala | Lys | Asn | Pro | Pro | Gly | Asp | Ser | Ser | Leu | His | Trp | Ala | Ala |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Met | Ala | Leu | Pro | Ala | Leu | Phe | Ser | Leu | Ile | Ile | Gly | Phe | Ala | Phe | Gly |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Ala | Leu | Tyr | Trp | Lys | Lys | Arg | Gln | Pro | Ser | Leu | Thr | Arg | Ala | Val | Glu |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Asn | Ile | Gln | Ile | Asn | Glu | Glu | Asp | Asn | Glu | Ile | Ser | Met | Leu | Gln | Glu |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Lys | Glu | Arg | Glu | Phe | Gln | Glu | Val | | | | | | | | |
| | | | | 245 | | | | | | | | | | | |

<210> 519
<211> 248
<212> PRT
<213> Homo sapiens

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | | | | | | | | | | | | |
| Glu | Gly | Ile | Cys | Arg | Asn | Arg | Val | Thr | Asn | Asn | Val | Lys | Asp | Val | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Lys | Leu | Val | Ala | Asn | Leu | Pro | Lys | Asp | Tyr | Met | Ile | Thr | Leu | Lys | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Pro | Gly | Met | Asp | Val | Leu | Pro | Ser | His | Cys | Trp | Ile | Ser | Glu | Met |
| | 35 | | | | | | 40 | | | | | 45 | | | |
| Val | Val | Gln | Leu | Ser | Asp | Ser | Leu | Thr | Asp | Leu | Leu | Asp | Lys | Phe | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Asn | Ile | Ser | Glu | Gly | Leu | Ser | Asn | Tyr | Ser | Ile | Ile | Asp | Lys | Leu | Val |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Asn | Ile | Val | Asp | Asp | Leu | Val | Glu | Cys | Val | Lys | Glu | Asn | Ser | Ser | Lys |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Asp | Val | Lys | Lys | Ser | Phe | Lys | Ser | Pro | Glu | Pro | Arg | Leu | Phe | Thr | Pro |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Glu | Glu | Phe | Phe | Arg | Ile | Phe | Asn | Arg | Ser | Ile | Asp | Ala | Phe | Lys | Asp |
| | | | 115 | | | | 120 | | | | | 125 | | | |
| Phe | Val | Val | Ala | Ser | Glu | Thr | Ser | Asp | Cys | Val | Val | Ser | Ser | Thr | Leu |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ser | Pro | Glu | Lys | Asp | Ser | Arg | Val | Ser | Val | Thr | Lys | Pro | Phe | Met | Leu |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 520
<211> 248
<212> PRT
<213> Homo sapiens

<400> 520
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
1 5 10 15
Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
20 25 30
Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95
Asp Ile Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 521
<211> 248
<212> PRT

<213> Homo sapiens

<400> 521

```
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
 1          5          10          15
Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
          20          25          30
Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
          35          40          45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
          50          55          60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
          65          70          75          80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
          85          90          95
Asp Leu Gln Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
          100          105          110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
          115          120          125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
          130          135          140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
          145          150          155          160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
          165          170          175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
          180          185          190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
          195          200          205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
          210          215          220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
          225          230          235          240
Lys Glu Arg Glu Phe Gln Glu Val
          245
```

<210> 522

<211> 248

<212> PRT

<213> Homo sapiens

<400> 522

```
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
 1          5          10          15
Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
          20          25          30
Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
          35          40          45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
          50          55          60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
          65          70          75          80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
          85          90          95
Asp Leu Asn Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
          100          105          110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
```

[illegible]

<210> 524
<211> 248
<212> PRT
<213> Homo sapiens

<400> 524
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
1 5 10 15
Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
20 25 30
Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95
Asp Leu Lys Asn Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 525
<211> 248
<212> PRT
<213> Homo sapiens

<400> 525
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
1 5 10 15
Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
20 25 30
Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val

```

65          70          75          80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
      85          90          95
Asp Leu Lys Lys Ser Ile Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
      100          105          110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
      115          120          125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
      130          135          140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145          150          155          160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
      165          170          175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
      180          185          190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
      195          200          205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
      210          215          220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225          230          235          240
Lys Glu Arg Glu Phe Gln Glu Val
      245

```

<210> 526
 <211> 248
 <212> PRT
 <213> Homo sapiens

```

<400> 526
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
1      5      10      15
Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
      20      25      30
Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
      35      40      45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
      50      55      60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65          70          75          80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
      85          90          95
Asp Leu Lys Lys Ser Val Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
      100          105          110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
      115          120          125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
      130          135          140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145          150          155          160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
      165          170          175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
      180          185          190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195          200          205

```

Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 527
<211> 248
<212> PRT
<213> Homo sapiens

<400> 527
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
1 5 10 15
Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
20 25 30
Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95
Asp Leu Lys Lys Ser Phe Gln Ser Pro Glu Pro Arg Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 528
<211> 248
<212> PRT
<213> Homo sapiens

<400> 528
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
1 5 10 15
Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr

| | | |
|-----------------------------------------------------------------|-----|-----|
| 20 | 25 | 30 |
| Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met | | |
| 35 | 40 | 45 |
| Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser | | |
| 50 | 55 | 60 |
| Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val | | |
| 65 | 70 | 75 |
| Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys | | |
| 85 | 90 | 95 |
| Asp Leu Lys Lys Ser Phe Asn Ser Pro Glu Pro Arg Leu Phe Thr Pro | | |
| 100 | 105 | 110 |
| Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp | | |
| 115 | 120 | 125 |
| Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu | | |
| 130 | 135 | 140 |
| Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu | | |
| 145 | 150 | 155 |
| Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn | | |
| 165 | 170 | 175 |
| Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala | | |
| 180 | 185 | 190 |
| Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly | | |
| 195 | 200 | 205 |
| Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu | | |
| 210 | 215 | 220 |
| Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu | | |
| 225 | 230 | 235 |
| Lys Glu Arg Glu Phe Gln Glu Val | | 240 |
| 245 | | |

<210> 529
<211> 248
<212> PRT
<213> Homo sapiens

<400> 529

| | | |
|-----------------------------------------------------------------|-----|-----|
| Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr | | |
| 1 | 5 | 10 |
| Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr | | |
| 20 | 25 | 30 |
| Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met | | |
| 35 | 40 | 45 |
| Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser | | |
| 50 | 55 | 60 |
| Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val | | |
| 65 | 70 | 75 |
| Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys | | |
| 85 | 90 | 95 |
| Asp Leu Lys Lys Ser Phe Lys Ser Pro Gln Pro Arg Leu Phe Thr Pro | | |
| 100 | 105 | 110 |
| Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp | | |
| 115 | 120 | 125 |
| Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu | | |
| 130 | 135 | 140 |
| Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu | | |
| 145 | 150 | 155 |
| | | 160 |

Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 530
<211> 248
<212> PRT
<213> Homo sapiens

<400> 530
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
1 5 10 15
Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
20 25 30
Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95
Asp Leu Lys Lys Ser Phe Lys Ser Pro Asn Pro Arg Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 531
<211> 248
<212> PRT

<213> Homo sapiens

<400> 531

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Gly | Ile | Cys | Arg | Asn | Arg | Val | Thr | Asn | Asn | Val | Lys | Asp | Val | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Lys | Leu | Val | Ala | Asn | Leu | Pro | Lys | Asp | Tyr | Met | Ile | Thr | Leu | Lys | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Pro | Gly | Met | Asp | Val | Leu | Pro | Ser | His | Cys | Trp | Ile | Ser | Glu | Met |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Val | Val | Gln | Leu | Ser | Asp | Ser | Leu | Thr | Asp | Leu | Leu | Asp | Lys | Phe | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Asn | Ile | Ser | Glu | Gly | Leu | Ser | Asn | Tyr | Ser | Ile | Ile | Asp | Lys | Leu | Val |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Asn | Ile | Val | Asp | Asp | Leu | Val | Glu | Cys | Val | Lys | Glu | Asn | Ser | Ser | Lys |
| | | | 85 | | | | | | 90 | | | | | 95 | |
| Asp | Leu | Lys | Lys | Ser | Phe | Lys | Ser | Pro | His | Pro | Arg | Leu | Phe | Thr | Pro |
| | | | 100 | | | | | 105 | | | | | | 110 | |
| Glu | Glu | Phe | Phe | Arg | Ile | Phe | Asn | Arg | Ser | Ile | Asp | Ala | Phe | Lys | Asp |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Phe | Val | Val | Ala | Ser | Glu | Thr | Ser | Asp | Cys | Val | Val | Ser | Ser | Thr | Leu |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ser | Pro | Glu | Lys | Asp | Ser | Arg | Val | Ser | Val | Thr | Lys | Pro | Phe | Met | Leu |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Pro | Pro | Val | Ala | Ala | Ser | Ser | Leu | Arg | Asn | Asp | Ser | Ser | Ser | Ser | Asn |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Arg | Lys | Ala | Lys | Asn | Pro | Pro | Gly | Asp | Ser | Ser | Leu | His | Trp | Ala | Ala |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Met | Ala | Leu | Pro | Ala | Leu | Phe | Ser | Leu | Ile | Ile | Gly | Phe | Ala | Phe | Gly |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Ala | Leu | Tyr | Trp | Lys | Lys | Arg | Gln | Pro | Ser | Leu | Thr | Arg | Ala | Val | Glu |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Asn | Ile | Gln | Ile | Asn | Glu | Glu | Asp | Asn | Glu | Ile | Ser | Met | Leu | Gln | Glu |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Lys | Glu | Arg | Glu | Phe | Gln | Glu | Val | | | | | | | | |
| | | | | 245 | | | | | | | | | | | |

<210> 532

<211> 248

<212> PRT

<213> Homo sapiens

<400> 532

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Gly | Ile | Cys | Arg | Asn | Arg | Val | Thr | Asn | Asn | Val | Lys | Asp | Val | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Lys | Leu | Val | Ala | Asn | Leu | Pro | Lys | Asp | Tyr | Met | Ile | Thr | Leu | Lys | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Pro | Gly | Met | Asp | Val | Leu | Pro | Ser | His | Cys | Trp | Ile | Ser | Glu | Met |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Val | Val | Gln | Leu | Ser | Asp | Ser | Leu | Thr | Asp | Leu | Leu | Asp | Lys | Phe | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Asn | Ile | Ser | Glu | Gly | Leu | Ser | Asn | Tyr | Ser | Ile | Ile | Asp | Lys | Leu | Val |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Asn | Ile | Val | Asp | Asp | Leu | Val | Glu | Cys | Val | Lys | Glu | Asn | Ser | Ser | Lys |
| | | | 85 | | | | | | 90 | | | | | 95 | |
| Asp | Leu | Lys | Lys | Ser | Phe | Lys | Ser | Pro | Glu | Ser | Arg | Leu | Phe | Thr | Pro |
| | | | 100 | | | | | 105 | | | | | | 110 | |

Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 533
<211> 248
<212> PRT
<213> Homo sapiens

<400> 533
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
1 5 10 15
Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
20 25 30
Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95
Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Ala Arg Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val

245

<210> 534
<211> 248
<212> PRT
<213> Homo sapiens

<400> 534
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
1 5 10 15
Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
20 25 30
Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95
Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro His Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

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<211> 248
<212> PRT
<213> Homo sapiens

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Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
50 55 60

Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95
Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Gln Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 536

<211> 248

<212> PRT

<213> Homo sapiens.

<400> 536

Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
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Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
20 25 30
Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95
Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Val Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | 195 | | | | | 200 | | | | | | 205 | | | | |
| Ala | Leu | Tyr | Trp | Lys | Lys | Arg | Gln | Pro | Ser | Leu | Thr | Arg | Ala | Val | Glu | |
| 210 | | | | | | 215 | | | | | 220 | | | | | |
| Asn | Ile | Gln | Ile | Asn | Glu | Glu | Asp | Asn | Glu | Ile | Ser | Met | Leu | Gln | Glu | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | |
| Lys | Glu | Arg | Glu | Phe | Gln | Glu | Val | | | | | | | | | |
| | | | | 245 | | | | | | | | | | | | |

<210> 537
<211> 248
<212> PRT
<213> Homo sapiens

<400> 537

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Glu | Gly | Ile | Cys | Arg | Asn | Arg | Val | Thr | Asn | Asn | Val | Lys | Asp | Val | Thr | |
| 1 | | | 5 | | | | | 10 | | | | | 15 | | | |
| Lys | Leu | Val | Ala | Asn | Leu | Pro | Lys | Asp | Tyr | Met | Ile | Thr | Leu | Lys | Tyr | |
| | | 20 | | | | | 25 | | | | | 30 | | | | |
| Val | Pro | Gly | Met | Asp | Val | Leu | Pro | Ser | His | Cys | Trp | Ile | Ser | Glu | Met | |
| | 35 | | | | | 40 | | | | | | 45 | | | | |
| Val | Val | Gln | Leu | Ser | Asp | Ser | Leu | Thr | Asp | Leu | Leu | Asp | Lys | Phe | Ser | |
| 50 | | | | | 55 | | | | | 60 | | | | | | |
| Asn | Ile | Ser | Glu | Gly | Leu | Ser | Asn | Tyr | Ser | Ile | Ile | Asp | Lys | Leu | Val | |
| 65 | | | | | 70 | | | | 75 | | | | | | 80 | |
| Asn | Ile | Val | Asp | Asp | Leu | Val | Glu | Cys | Val | Lys | Glu | Asn | Ser | Ser | Lys | |
| | | | 85 | | | | | 90 | | | | | 95 | | | |
| Asp | Leu | Lys | Lys | Ser | Phe | Lys | Ser | Pro | Glu | Pro | Arg | Ile | Phe | Thr | Pro | |
| | | 100 | | | | | 105 | | | | | 110 | | | | |
| Glu | Glu | Phe | Phe | Arg | Ile | Phe | Asn | Arg | Ser | Ile | Asp | Ala | Phe | Lys | Asp | |
| | 115 | | | | | 120 | | | | | 125 | | | | | |
| Phe | Val | Val | Ala | Ser | Glu | Thr | Ser | Asp | Cys | Val | Val | Ser | Ser | Thr | Leu | |
| 130 | | | | | | 135 | | | | | 140 | | | | | |
| Ser | Pro | Glu | Lys | Asp | Ser | Arg | Val | Ser | Val | Thr | Lys | Pro | Phe | Met | Leu | |
| 145 | | | | 150 | | | | | 155 | | | | | | 160 | |
| Pro | Pro | Val | Ala | Ala | Ser | Ser | Leu | Arg | Asn | Asp | Ser | Ser | Ser | Ser | Asn | |
| | | | 165 | | | | | 170 | | | | | 175 | | | |
| Arg | Lys | Ala | Lys | Asn | Pro | Pro | Gly | Asp | Ser | Ser | Leu | His | Trp | Ala | Ala | |
| | | 180 | | | | | 185 | | | | | 190 | | | | |
| Met | Ala | Leu | Pro | Ala | Leu | Phe | Ser | Leu | Ile | Ile | Gly | Phe | Ala | Phe | Gly | |
| | 195 | | | | | 200 | | | | | 205 | | | | | |
| Ala | Leu | Tyr | Trp | Lys | Lys | Arg | Gln | Pro | Ser | Leu | Thr | Arg | Ala | Val | Glu | |
| 210 | | | | | | 215 | | | | | 220 | | | | | |
| Asn | Ile | Gln | Ile | Asn | Glu | Glu | Asp | Asn | Glu | Ile | Ser | Met | Leu | Gln | Glu | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | |
| Lys | Glu | Arg | Glu | Phe | Gln | Glu | Val | | | | | | | | | |
| | | | | 245 | | | | | | | | | | | | |

<210> 538
<211> 248
<212> PRT
<213> Homo sapiens

<400> 538

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| Glu | Gly | Ile | Cys | Arg | Asn | Arg | Val | Thr | Asn | Asn | Val | Lys | Asp | Val | Thr | |
| 1 | | | 5 | | | | | 10 | | | | | 15 | | | |

Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
20 25 30
Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95
Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Gln Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
145 150 155 160
Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
165 170 175
Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190
Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205
Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
210 215 220
Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
225 230 235 240
Lys Glu Arg Glu Phe Gln Glu Val
245

<210> 539
<211> 248
<212> PRT
<213> Homo sapiens

<400> 539
Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
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Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
20 25 30
Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45
Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
50 55 60
Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
65 70 75 80
Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95
Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
100 105 110
Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
115 120 125
Phe Val Val Ala Ser Asn Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140
Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Pro | Pro | Val | Ala | Ala | Ser | Ser | Leu | Arg | Asn | Asp | Ser | Ser | Ser | Ser | Asn |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Arg | Lys | Ala | Lys | Asn | Pro | Pro | Gly | Asp | Ser | Ser | Leu | His | Trp | Ala | Ala |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Met | Ala | Leu | Pro | Ala | Leu | Phe | Ser | Leu | Ile | Ile | Gly | Phe | Ala | Phe | Gly |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Ala | Leu | Tyr | Trp | Lys | Lys | Arg | Gln | Pro | Ser | Leu | Thr | Arg | Ala | Val | Glu |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Asn | Ile | Gln | Ile | Asn | Glu | Glu | Asp | Asn | Glu | Ile | Ser | Met | Leu | Gln | Glu |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Lys | Glu | Arg | Glu | Phe | Gln | Glu | Val | | | | | | | | |
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<210> 540
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<212> PRT
<213> Homo sapiens

<400> 540

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| Glu | Gly | Ile | Cys | Arg | Asn | Arg | Val | Thr | Asn | Asn | Val | Lys | Asp | Val | Thr |
| 1 | | | 5 | | | | | | 10 | | | | | 15 | |
| Lys | Leu | Val | Ala | Asn | Leu | Pro | Lys | Asp | Tyr | Met | Ile | Thr | Leu | Lys | Tyr |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Val | Pro | Gly | Met | Asp | Val | Leu | Pro | Ser | His | Cys | Trp | Ile | Ser | Glu | Met |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Val | Val | Gln | Leu | Ser | Asp | Ser | Leu | Thr | Asp | Leu | Leu | Asp | Lys | Phe | Ser |
| | 50 | | | | | 55 | | | | 60 | | | | | |
| Asn | Ile | Ser | Glu | Gly | Leu | Ser | Asn | Tyr | Ser | Ile | Ile | Asp | Lys | Leu | Val |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Asn | Ile | Val | Asp | Asp | Leu | Val | Glu | Cys | Val | Lys | Glu | Asn | Ser | Ser | Lys |
| | | | 85 | | | | | 90 | | | | | 95 | | |
| Asp | Leu | Lys | Lys | Ser | Phe | Lys | Ser | Pro | Glu | Pro | Arg | Leu | Phe | Thr | Pro |
| | | 100 | | | | | | 105 | | | | | 110 | | |
| Glu | Glu | Phe | Phe | Arg | Ile | Phe | Asn | Arg | Ser | Ile | Asp | Ala | Phe | Lys | Asp |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Phe | Val | Val | Ala | Ser | His | Thr | Ser | Asp | Cys | Val | Val | Ser | Ser | Thr | Leu |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ser | Pro | Glu | Lys | Asp | Ser | Arg | Val | Ser | Val | Thr | Lys | Pro | Phe | Met | Leu |
| 145 | | | | | 150 | | | | 155 | | | | | | 160 |
| Pro | Pro | Val | Ala | Ala | Ser | Ser | Leu | Arg | Asn | Asp | Ser | Ser | Ser | Ser | Asn |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Arg | Lys | Ala | Lys | Asn | Pro | Pro | Gly | Asp | Ser | Ser | Leu | His | Trp | Ala | Ala |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Met | Ala | Leu | Pro | Ala | Leu | Phe | Ser | Leu | Ile | Ile | Gly | Phe | Ala | Phe | Gly |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Ala | Leu | Tyr | Trp | Lys | Lys | Arg | Gln | Pro | Ser | Leu | Thr | Arg | Ala | Val | Glu |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Asn | Ile | Gln | Ile | Asn | Glu | Glu | Asp | Asn | Glu | Ile | Ser | Met | Leu | Gln | Glu |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Lys | Glu | Arg | Glu | Phe | Gln | Glu | Val | | | | | | | | |
| | | | | 245 | | | | | | | | | | | |

<210> 541
<211> 248

<212> PRT
<213> Homo sapiens

<400> 541

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| Glu | Gly | Ile | Cys | Arg | Asn | Arg | Val | Thr | Asn | Asn | Val | Lys | Asp | Val | Thr |
| 1 | | | 5 | | | | | | 10 | | | | | 15 | |
| Lys | Leu | Val | Ala | Asn | Leu | Pro | Lys | Asp | Tyr | Met | Ile | Thr | Leu | Lys | Tyr |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Val | Pro | Gly | Met | Asp | Val | Leu | Pro | Ser | His | Cys | Trp | Ile | Ser | Glu | Met |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Val | Val | Gln | Leu | Ser | Asp | Ser | Leu | Thr | Asp | Leu | Leu | Asp | Lys | Phe | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Asn | Ile | Ser | Glu | Gly | Leu | Ser | Asn | Tyr | Ser | Ile | Ile | Asp | Lys | Leu | Val |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Asn | Ile | Val | Asp | Asp | Leu | Val | Glu | Cys | Val | Lys | Glu | Asn | Ser | Ser | Lys |
| | | | 85 | | | | | | 90 | | | | | 95 | |
| Asp | Leu | Lys | Lys | Ser | Phe | Lys | Ser | Pro | Glu | Pro | Arg | Leu | Phe | Thr | Pro |
| | | | 100 | | | | | 105 | | | | | | 110 | |
| Glu | Glu | Phe | Phe | Arg | Ile | Phe | Asn | Arg | Ser | Ile | Asp | Ala | Phe | Lys | Asp |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Phe | Val | Val | Ala | Ser | Glu | Thr | Ser | Gln | Cys | Val | Val | Ser | Ser | Thr | Leu |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ser | Pro | Glu | Lys | Asp | Ser | Arg | Val | Ser | Val | Thr | Lys | Pro | Phe | Met | Leu |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Pro | Pro | Val | Ala | Ala | Ser | Ser | Leu | Arg | Asn | Asp | Ser | Ser | Ser | Ser | Asn |
| | | | 165 | | | | | | 170 | | | | | 175 | |
| Arg | Lys | Ala | Lys | Asn | Pro | Pro | Gly | Asp | Ser | Ser | Leu | His | Trp | Ala | Ala |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Met | Ala | Leu | Pro | Ala | Leu | Phe | Ser | Leu | Ile | Ile | Gly | Phe | Ala | Phe | Gly |
| | 195 | | | | | | 200 | | | | | 205 | | | |
| Ala | Leu | Tyr | Trp | Lys | Lys | Arg | Gln | Pro | Ser | Leu | Thr | Arg | Ala | Val | Glu |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Asn | Ile | Gln | Ile | Asn | Glu | Glu | Asp | Asn | Glu | Ile | Ser | Met | Leu | Gln | Glu |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Lys | Glu | Arg | Glu | Phe | Gln | Glu | Val | | | | | | | | |
| | | | | | 245 | | | | | | | | | | |

<210> 542
<211> 248
<212> PRT
<213> Homo sapiens

<400> 542

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| Glu | Gly | Ile | Cys | Arg | Asn | Arg | Val | Thr | Asn | Asn | Val | Lys | Asp | Val | Thr |
| 1 | | | 5 | | | | | | 10 | | | | | 15 | |
| Lys | Leu | Val | Ala | Asn | Leu | Pro | Lys | Asp | Tyr | Met | Ile | Thr | Leu | Lys | Tyr |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Val | Pro | Gly | Met | Asp | Val | Leu | Pro | Ser | His | Cys | Trp | Ile | Ser | Glu | Met |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Val | Val | Gln | Leu | Ser | Asp | Ser | Leu | Thr | Asp | Leu | Leu | Asp | Lys | Phe | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Asn | Ile | Ser | Glu | Gly | Leu | Ser | Asn | Tyr | Ser | Ile | Ile | Asp | Lys | Leu | Val |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Asn | Ile | Val | Asp | Asp | Leu | Val | Glu | Cys | Val | Lys | Glu | Asn | Ser | Ser | Lys |
| | | | 85 | | | | | | 90 | | | | | 95 | |
| Asp | Leu | Lys | Lys | Ser | Phe | Lys | Ser | Pro | Glu | Pro | Arg | Leu | Phe | Thr | Pro |

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